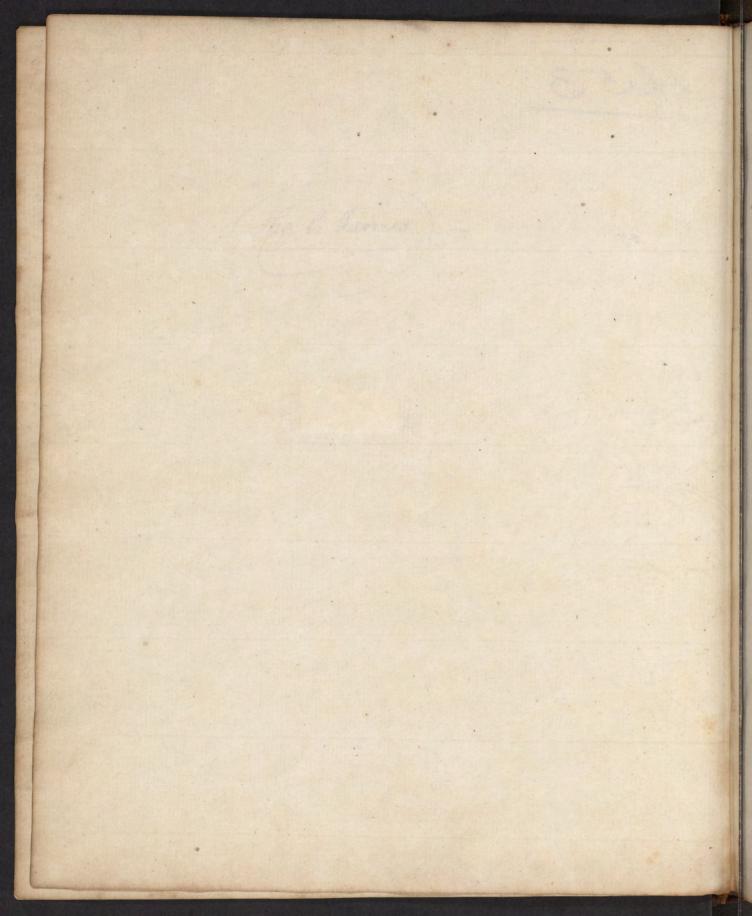
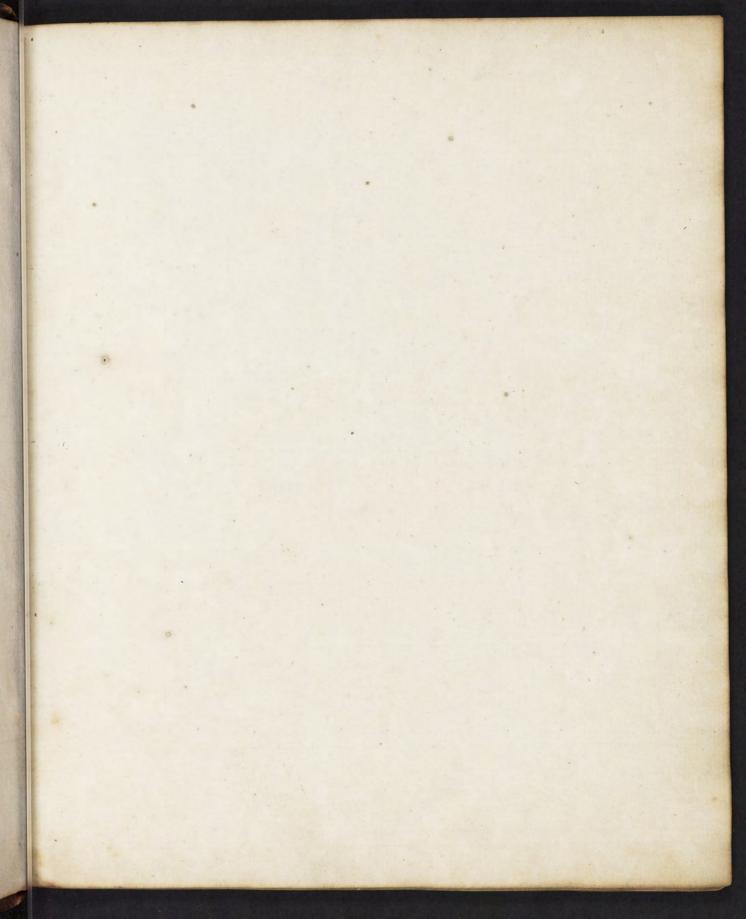
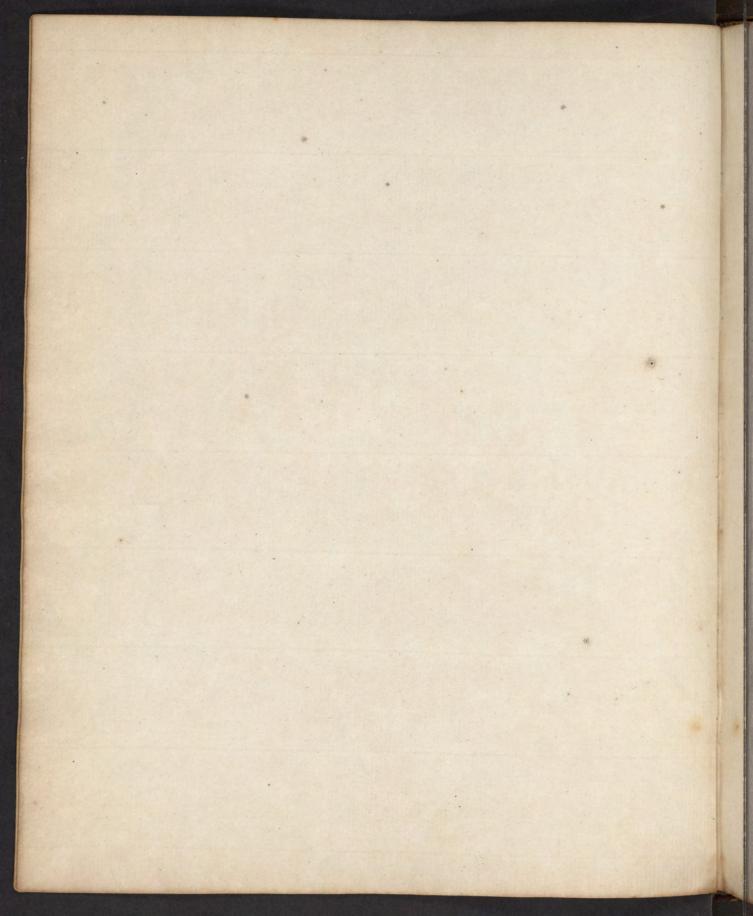
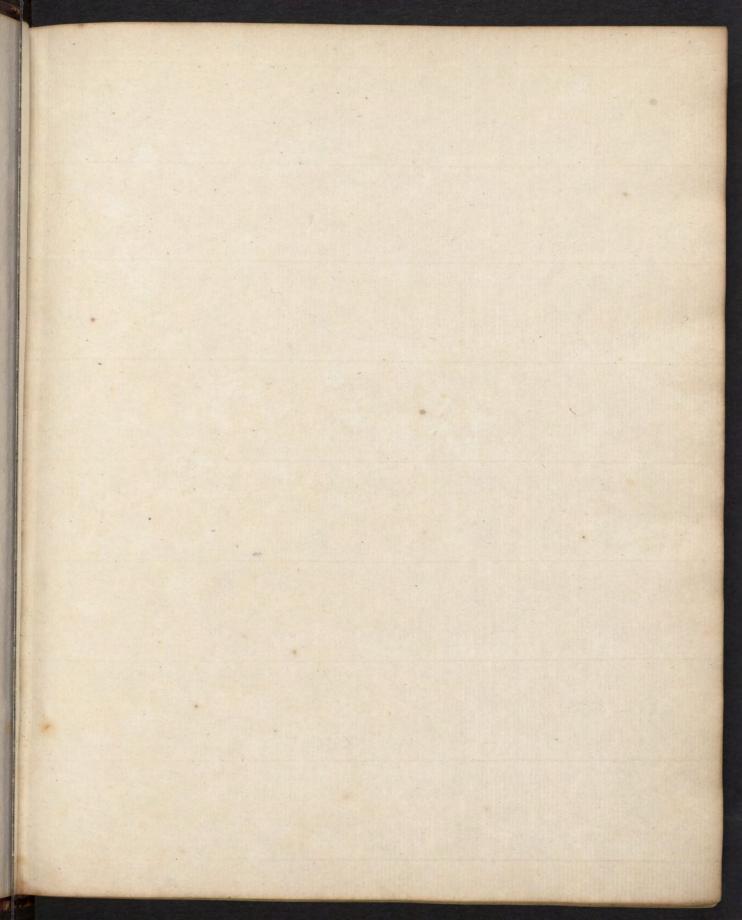


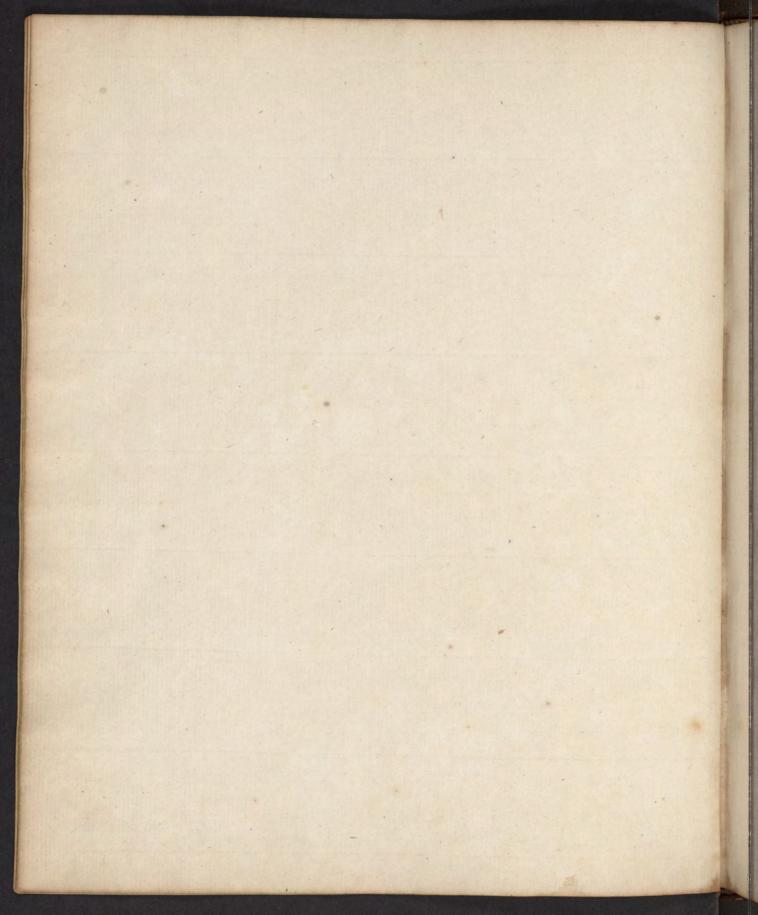
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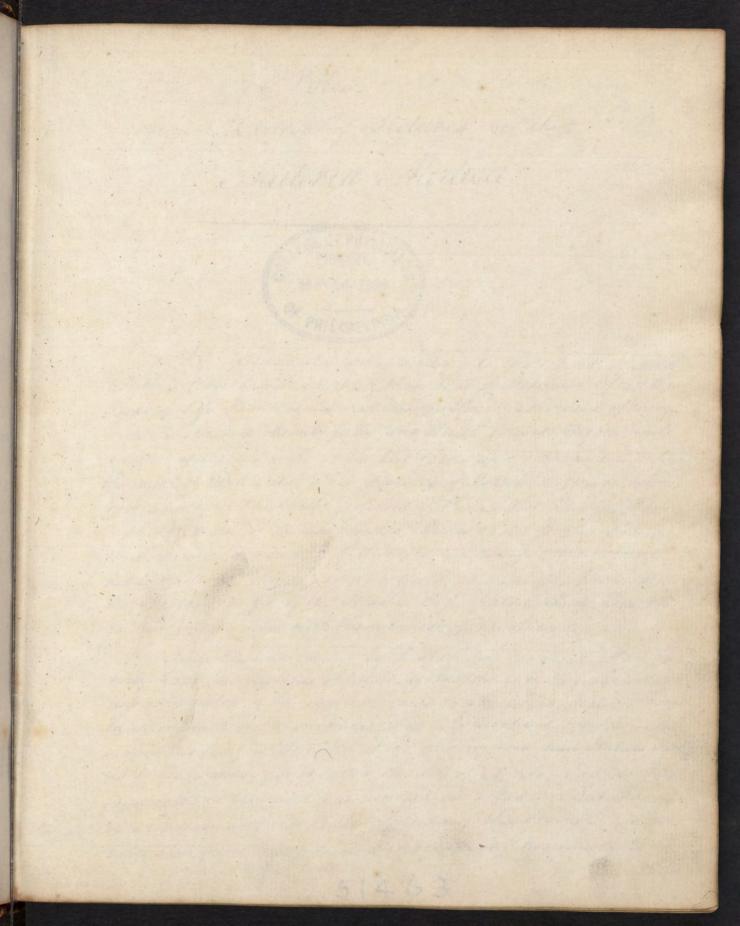












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From a Course of Lectures on the Materia Medica

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MAY14 1896

PHILADELPHIA

no Snowledge more important than that of Medicine. Of all the Goods of Sife Health is the most desireable, it is the Soul of Enjoy. ment; without it Beauty faces and Youth loses its Bigour and a Man will starve tho at the best tables and sourounded with the greatest Deliraires. When deprived of Health a Berson become poor and wretched alths profsessed of the greatest Hosalth. Even a slight degree of disease renders Riches tasteless and browns themselves a Burden. If diseases are painful they equal all Conditions; they make no difference between the Brince and the Beggav: a fit of the Stone or Coli puts a King, and places him upon a level with the meanest of his Sutjects.

Since the Evils caused by Disease are so great, Man must early have been desirous of attaining Health, guarding against Sick ness and restoring his injured Frame to a vigorous State. From hunce we need not be surprized that Asculapius, who was considered as the first Inventor of the healing Out, had Statues created to his Memory, was called the Son of Apollo, had Temples consecrated to him and was honored as a God. But we can not consider any one as the Founder of this Science. It is probable that from a stender and imperceptible Beginning, by the surespine

successive Labours of Ages it was brought to its present State of perfection. It may be of advantage to trace its Origin at least as far as
regards our present Subject. It is not to be doubted but that in the first
ages of the World Man would be anxious to guard against Disease
and endeavour to remove those with which he was attacked even
at that early period. This laid the first Foundation for the Ma.
teria Medica; by which is meant that Science which treats of
the Remedies made use of for the preservation of Health and the

Cure of diseases.

This Knowledge in those days must have been very much confined. It has been brought to its present State of per. fection and almost all Medicines discovered by Accident, Institut or promiscuous Experiment. By accident we muan the discovery of Medicines undesignedly made, like what we are told by the celebrated Mr Geoffry of the pour can Bark, that a num. ber of Trees being blown down into an adjacent Lake gave such a bitter Sinctine to the Water that no person could use it, nor any Cattle drink it, till at length an Indian urged by severe thirt in an Intermittent Sever eagerly took two or three large Draughts which cured his disorder and gave such repute to the Waters that they were soon exhausted, and when the Lake filled by the next Rains was found without its Bitterness and Virtues, it was concluded that they both arose from the macer ated Trees which had formerly been blown into it, as indeed they were soon convinced by Experiment: thus to more accident the World owes the discovery of one of its most sovereign Remedies and probably had it not been for this accident we should never have been made acquainted with its Writues. By Instinct we mean that discretion which in different degrees is diffused thro all animals directing them to choose what is good and avoid whatever is evil or destructive. This faculty is possessed by Man in a degree for superior to the rest of the animal Creation; thus we find book Cheldren and chlo. rotic birls whose Stomach's abound with an acid swallowing Chalk

Chalk, ashes and other things which will neutralize and correct this acidity. Persons labouring under pertied disorders have a great aversion to and cannot bear even the sight of blesh and eagerly desire acids and other Substances which have a Tondency to ze = move the disorder. By promiscious Experiment we intend ternedies found out by hasty and indisoriminate Trials not pointed out by Reason or Instinct: in this way many valuable Remedies have been discovered.

Medicine like all the other arts and Sciences, was much improved by the Greeks. These people had a bustone of exposing you Sick in the Market places and Dighways for the Iris pection of Passengers who recommended what they had known succeed in similar Cases. If the sick Man recovered it was considered as an indispensible Duty to hang up a Votice Tablet in the Temple of Apollo or Asculapius the patrons and the Gods of Physic On this Tablet were written the History of the disorder under which they had laboured and the Remedies by which it had been removed. The Romedies were by these means increased beyond all Comeption and their various Combinations became boundless from the accumulation of Ingredients. This Practice was certainly productive of great disadvantages as in crouded Compositions there must frequently be a distrond between the Ingredients. and from this accumulation the Wirtues of the most powerful Ingredients were obstructed by the number of inert Substances They were combined with. This was car. ried to an Exceps in the framing of antidotes which when ta. ken into the Gody were to prevent the Effects of any future poison. To this we owe those enormous Compositions, The Thereaca and Methridate; Compositions which have de. stroyed more Lives than the Sword of an Alexander or a Casar. These entirely banished all Esteem for Simplicity and effectually checked the progress and prevented the Im. provement of the Science. all their Emulation was in Dex. terity

Dealerity to enlarge these Superfluities first by the Grecians and afterwards. When Searning was introduced by the arabs intoy west of Europe the most profound Superstition reigned: under this Basiness of Spirit no Improvement was to be expected. The only Method by which Men of Genius could display their Talents wasin commenting upon the philosophical Systems of the antients which were invested to throw light upon Subjects they did not at all un. derstand: and thus they employed themselves for several Centu. ries. The Introduction of Chemistry instead of diminishing in. creased the Evil to this we owe the Panaceas, Elixirs and other ridiculous and trifling Compositions. Physicians at this time were divided into two Sects the Chemicae and Galenical between which there were continual Controversies; but the same blind Submission was still paid to the authority of Masters which they imposed upon them selves. When Learning again began to shine forth in the 15th Century from the darkness in which it had been long involved Physicians became anxious to acquaint themselves with a Knowledge of the ancients, they therefore collected the Distory of Simples from the Writings of diascoredes and Theophras. tus. But here they met with unexpected Difficulties; for first from the imperfect Descriptions left us by the antients, it is in many bases absolutely impossible to ascertain the Substances they made use of: secondly they were not sufficiently acquainted with natural History to know that the plants of Greece differ exceedingly from those of the western parts of Europe. These Cir. curnstances served as a Bone of Contention for some time, man my Wirtues were ascribed by the antients to plants without a. my Shadow of Reason. The evioneous and superstitious Opi. nion that planets have an influence on plants proved the Cause of introducing many insignificant and reducilous Substances into the materia hedica and almost all the of. ficacions ones were at the same time banished. all the Writings on the Materia Medica were compelations from the Ancients

1st The Knowledge of the Substances employed in Medicine or Diet and their Distinction from all others.

2nd Their Virtues in Medicine or Diet

3rd The Foundation of these Virtues in their sensible qualities or Chemical properties.

4th Their pharmaceutical Treatment or their artificial preharation for the purposes they are intended to answer,
with the Compositions into which they enter and the
propriety of the Combination together with the dose in
which it is to be given in order to produce its intended of
fect.

As to the first the Substances are either Matural or Arlificial: the Anowledge of the former must be obtained from Natural station, and of the latter from Chemistry. A Anowledge of Matural History is certainly of great Use to the Physician; had the Ancients been as quainted with it they would not have been engaged in so many Disputes as they were.

The second Head as it is by much the most essential so it will obtain by far the greatest part of our attention in the following Cower Under this Head we will first endea.

your to ascertain the general Wirtues of the Substances and there. fore the Indications they are fitted to answer: secondly we shall mu. tion the diseases they are employed to cure, the Corcumstances with point out their Use, and the bases in which they are contraindi. cated: Thirdly their manner of Operation and the doses in which they are to be administered; under this Head we will describe the particular diseases in which they are to be taken, distinguish them by characteristic Symptoms from all others and point out thein. dications and the general principles upon which a bure is tobe as to the third Head we will examine the foun. dation of their Voitues in their sensible qualities and Chemical properties and this is the only Method I know to form a proper Judge. ment of the Virtues of Medicines. By these means we may be enabled to discover the Virtues of some Substances that would otherwise lay hid. Thus before the Time of Sir John Pringle many Substances were supposed antiseptic, nay they are even prescribed to this day in this disorder, tho' they can be of no a do antage and by increa. sing the putrefaction they may be prejudicial.

under the fourth Head we shall consider their phan maceutical Treatment and the Compositions into which they enter with the propriety of their Combination.

Importance to a physician: It is the only briterion to judge be tween a regular bred physician and an illiterate Quack. The Quack sometimes cures Disorders by his Medicines but he is not acquainted with the manner of their Operation nor the Teasons why they are indicated. He who gives a Medicine the Operation

^{*} which he by his Experiments proved septie: Thus Calcareous & absorbent Earths were formerly used in the dysentery upon a supposition of their being antiseptic.

Indians of North americal cure many diseases to which they are exposed by simple Remedies as effectually as if they were acquain, ted with the most costly and artificial ones and they are perhaps happy in their Ignorance of these Substances. It is our duty to en. quive into the Remedies by which these bures were performed. To animate us in our Enquiries it may be observed that new Remedies are daily discovered. Within these few Years there have been added to the Stock of the Materia Medica the Radia Quafria; the Colombo Root; the Suprum ammoniacum and very lately the blowers of Tine; Medicines of the utmost Utility in the Coure of many diseases incident to the Ruman Frame.

There is no doubt but that North america contains many capital Remedies. The Knowledge of the Virtues of Timedies is only to be obtained from the Natives of the Country in which they are produced which are afterwards to be established by repeated Observation. This has been the practice in every Country and it is our own fault if we do not employ it here. There is no doubt but that in this way many valuable Temedies for the preser. vation of Health and the Cure of diseases may be discovered; it is at least our duty to attempt it and perhaps it may be the good hortune of some one of us to discover a medicine equally efficacious with the peruvian Bark in the Cure of disorders any person who should make such a discovery would do more der, vice than the Founder of Rospitals and would be entitled to move eminent distinction as a Benefactor to Mankinds.

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Make themselves acquainted with the Origin, Rise and progress of the Science in which they intend to become proficients. The Science de serves more attention in this way than Medicine. For as it has always happened that Physicians have given Laws to their fellow hen and that great hames have stamped a balue cipon Opinions that they by no means deserved, in giving an account of the several persons who have been eminent in this Science we at the same time acquire a Knowledge of their several Theories. What therefore in other Sciences is a mere matter of Coursesity is here attended with the city most Wility. To make you acquainted with the theories which have prevailed in prhysic is my motive for devoting one Lecture to the History of Medicine.

Some Useful arts have their Origin placed as well as y Inventors beyond the reach even of Tradition. Some have crept in. to Existence without an Inventor. Some, as the drepping of hood and that of Cloathing which must at the beginning have required some art, must have been coeval with Man. But the busy Mind used to a beginning in every thing, rests not till Afind, or imagines it finds some powon to whom it may asoribe the Invention of each Art. Thus we know that Bachus is said to have invented the art of making wine. The Bow and arrow are said to one their Origin to Sleythus a Son of Jupiter the it is a Weapon used in every Country. Even Spinning on account of its great Utility has had its Origin ascribed to several remark. able persons. Thus the Egyptians ascribed it to their Goddef Isis, the Greeks to Minerva, the peruvians to Oella and the Chinese to ya.oo. I give you these Instances to show how similar Opi: nions are in uncultivated Countries and how little Tradition is to be relied on. Medicine has likewise been attributed to divine Origin and with equal Reason. It is not at all probable that one person should have made such progress in physic as to deserve the Name of an Inventor of it. It is by the successive Labors of persons that arts are produced. We will rather suspect that Medicine is in one respect cowal with man.

Ever since Mankind has been in the State wherein we find him now, he must have been subject to various diseases and liable to pain and Sikness occasioned by the Inclemencies of the air, Excess of Diet to this in a much less degree than we are now on account of their Simplicity of Life. But they must always have been more particularly liable to external Injuries which would require manu. al aid. A bure would be attempted many things would per. haps be tried at Random; in many diseases there is a nature ral Instinct for many things that give relief; some diseases would be cured by Nature: People would observe all these and apply them in similar bases, and hence the first Origin of Medicine The Babylonians and other Nations exposed their sick in the Highway to the passengers, who were requested to examine y State, by which they could know whether they had ever seen persons in the like Condition and discover those Terrediesthey had known to be of use in like bases, Many of those that re. covered hung up Tablets in the Temples of Osculapius specify. ing the disease they had laboured under and by what means Mey had recovered. Long life and a large Family would ren = der a Man capable of improving in the Knowledge of Physic. Fame. Humanity and grateful Tetevins might contribute in encouraging a Man to make more accurate Observations in order to be more beneficial to his Neighbowrs. The same mo. tives might excite him to transmit his Knowledge to poste. rity as indeed we know to have been the base, and Medicine to have been confined for length of Years to certain Framilies. But still this natural physic, if I may be allowed the Ex. pression, made no great progress, untill it was cultivated as a regular Science, and cavied from one State into another. thus Greece received it from Egypt, Rome again from Greece.

The most ancient regular accounts of Medicine we have from Egypt. Yet even these are obscure and defective. We have an obscure account of Fermes Trismegistus who is reckoned the Father of Medicine and Philosophy in Egypt. De laid down several

accuracy

several Rules which his Successors in Medicine were obliged to follow under pain of death. He enjoined that one person should not pre-sume to prescribe in different disorders, but confine himself to, on pain of being put to death in case the patient died. These Regulations were calculated to prevent Mischief but they were a great restraint on Science. They might indeed answer in manual Operations, where great accuracy is required, but not at all in internal diseases as it would lead to the highest degree of Empiricism and yet ana. Logy is sometimes necessary even in Empiricism.

priests of Six culapieus were chiefly entrusted with the Sick who were usually brought to the Temples to consult the Deity, and it was thought that the Gures revealed to them in a Dream from which we must conclude that a great deal of Priesteraft was connected with it. But some of the priests soon became clinical Physicians, the the exact time is difficultly ascertained. They sum to have been particularly attentive to the prognosis all the Winter tings or Tecords of Physici were kept in the Temples, and these

were at the same time the Schools of physic, some of which be

Shis was the State of Physic untill the time of Approvates who was the 17th in lineal descent from Osculapies. He flow-rished 400 years before Christ, and died at 104 years of age, one year before the Brith of alexander the Great and two hundred in after Sciences had begun to flourish in Greece and when Socrates this disciples had brought the Sciences to their highest peter in that Country. Supporates was born and bred in The fealy remote from athens at that time the Seat of Literature and where a moderate Share of abilities would arguire him great Fame which if no material Revolution happened, might by his disciples the concurring princewings are look on him as a producy. If the toritings imputed to him are all taken to gether, they appear absurd who ried deculous, but select them and we find 66 servations made with

of those Writings that go under his name, are not really his, but the productions of some inferior Jenius or personage the author of which to make them better received published them under his hame. His hame would have been of short duration had not Jalen been at hains to explain many of his obscure passages and to hold him up as a prodigy. He was the Outhor of the Sect of Dogmatists. His doctrine was followed untill Philinus of Gos and Serapion founded the Sect of Empirics who rejecting all reasoning were for trusting solely to Observation, History and analogy in the bure of Diseases. We may observe that these Empirics were very different from the Empiricis of our days, who only hide their dullings, Graft and Sazinels under the Specious hame of Empiricism. It certainly requires as much time to study Empiricism properly as to become a Dogmatist.

proceeded to Come. Lite shall consider in a few Words the Rise & progress of Physic in Tome from its first beginning. It is well known that their elen who founded the City of Rome were a Set of Barbari. and and Rowers and at the beginning were engaged in continual wars with their luighbours, neglecting all Sciences, nor could it be expected that arts or Sciences could thrive in such a State. Pling tells us that physic was not practised in Rome for 600 Years of ter its Foundation. and at this time we find Cato the Censor me, scribing Incantation for the Course of a fractured Seq. But sometime before this the Osculapian Superstition had been introduced by the priests who had semples near the Siber as appears from some Me.

Ariagathus came to Tome \$33 years after the Building of the bity: he was a great surgeon and was at first recieved with havor but lost it soon and was banished from the bity with all the other greek physicians, according to the accounts given by some; this was perhaps owing to the manual Operations for which all univilized nations have a great antipathy

Tome after archagathus; he professed to cure cito, tuto & jumnow.

He was very compliant denying the patients nothing that they desired. He took care not to increase the disorder by overloading the patient with thy sick. He succeeded surprizingly by his specious manners, Boasting and easy thy sick; and no wonder, for we find them sue ceed even at this day. He was the author of the Methodic Sect.

These different Sects were swallowed upon the appearance of galen; who we must allow to have been a person of great merit, bit his Fame was rather owing to a Train of acudents than peculiar Merit. Nico the Father of Galen was a man of Wealth and Sitera. ture and gave him an Education formed on a general plan. after the Study of Philosophy he commenced that of Physic which he prosecuted under several Masters, by which he had the advantage of hearing different Opinions: to all this he joined travelling. He was peeu. liarly solicitous to increase the Materia Medica and was very curious in anatomical researches. Thus posseped of all the learning requisite to make a physician he repaired to Tome, the Capital of the World, where he found many physicians all engaged in acquiring practice by the usual Means, extolling themselves and run. ning down their Odvals; it was his tate not to succeed and there. fore after staying there 4 or 5 years he returned to his native Country Pergamus. He had however gained the Favour of somether of Science and recommended himself to the patronage of some of Whe higher blags. He was afterwards recalled by Marcus antoni. nus and Lucius Werus where he arguired the greatest Esteem of the Emperor and what is of greater consequence of the Empress daws. tina. He was of the Sect of the Dogmatists and established their principles by his great reputation, high Tank and great au: Thority by which he suppressed all the other Sects. He wrote 500 Weslumes which he so connected as to form a compleat system of Medi. In this Interval the Toman Empire in the West was over. Tun and entirely ruined by the Goths and the Barbarians of the north, and all the arts and Sciences or rather their Temains fled into the East where they continued for some time.

In the 7th Century of the Christian Ora, Mahometarose and

and overran great part of the East, took and destroyed Alexandria and as the Saracens or Mahometans are equally Enemies to Sitera. two with the goths, they destroyed the Library of alexandria which at that time contained almost all the Learning of the East. The arabs neglected all Searning until the leigh of the Calipho of the law of ababi. des when Learning began again to be encouraged and by whose means the Greek authors were translated into the Syrian & drabi. an Sanguages. The first Books they got were aristotle and after wards Galen and did nothing but comment upon his Works. They neglected anatomy from an aversion to touch dead Godies en joined whom them by their Teligion and which is peculiar to all the Eastern hations. They contributed little or nothing to the im. provement of Medicine execut by adding such New diseases as were peculiar to their Country with the Terredies useful in them as the Small pox which was first written whon by Rhazes in the 10. Ben. tury and was not known in Europe until the Institution of the Crusades for the recovery of the Holy Land. With several diseases they added the Symps to the Materia Medica for before their time honey was used in the stead. They made some Improve. ments in Surgery which must always happen in manual Exer. The arabians brought Searning again to Europe. They past over into Spain where they established Schools, from whense Letera, ture was spread all over Europe. This was at the end of the 11. and the beginning of the 12! Century at this time Universities began to be founded of which that at Salerno was the first. Me; Sieine was here taught whom the Galerical plan and here the Schola Salernitana was published and by it we may judge of the State of Learning at that time.

In the beginning of the 15th Century, Science began to shine forth in all its native Sustre. In 1453 Constantinople was taken by the Turks, which occasioned all the Men of Lear. ning to come to the West who brought with them all the valua. ble Manuscripts and Learning of the antients & creetab Schools.

In 1460 printing was dis covered, by which the Works

of the ancients were made public and thus the Increase of Learning & the advancement of the Sciences was much promoted. Men soon discovered the Superiority of the ancients and applied to their works.

Chemistry was till then little employed in physic; it was entirely in the hands of alchemists and quarks who made some brifling Improvements. The Lues Menered about this time made its appearance which was only to be conquered by Mercury. ante. mony had not long been known. The Orts and Sciences nowmake agreat progress; Medicine did not increase so fast as the politer arts. The doctrines of Galen continued to be followed, until para. celsus appeared on the Stage. He was the author of the Chemical Sect. His doctrines lasted about 100 years. The most considerable of his hollowers was Johannes Baptis to Wan Helmont. He was a person of great learning, but a wrong headed Enthusiast. To him belongs the Merit of having exploded the doctrines of Galen but he unhappily substituted his own worse ones in their room! He rejected Bloodletting and prescribed the Hot regimen in The = vers and at length fell a Sacrafice to his own Theory and died in the 46th year of his age of a Hewrey, because he would not not submit to be bled in it.

The Scholastic Whilosophy at this time still prevailed, altho the great Bacon flowrished, who shewed that the true Method of improving philosophy was by Observation.

for some time produced no great alteration or improvement in Medicine.

Man of an auto Genius and of extensive Learning. He was well acquainted with anatomy, Materia Medica and Chemistry. In Sylvius we have an Instance of the Insufficiency and fallacy of human leasoning. Notwithstanding all his Knowledge he fell into a wrong Theory. He supposed the Cause of Fever to be an acid and of consequence gave alkalies to cure it. No Theory that ever existed was so productive of Mischief to Mankind

ped, they may justly be said to have passed this a fiery Frial. Sylving prescribed Opium very freely and it is said he himself died from too

great a dose of it.

Sydenham was inferior to Sylvius in Education but far super rior to him in Judgement and a peculiar Salent for Observation He appears to have been one of the greatest Practitioners Mat ever lived. He had not much knowledge of Books but was well acquain ted with the Writings of Supportates, but was not a service Smitar ton even of him. He is a perfect Model of Integrity and bandon He is commonly said to have had no Theory: but this is not the base for no practice can exist without Theory. He was in deed not addicted to Theory and it is probable never entertained a The ory after he had reason to doubt of its Truth. He gave Opeates preely but judiciously and first introduced the simple practice. He was more esteemed by Foreigners than by his Country men who called him a quark. He first observed that the same dis. ease in different Circumstances required very different Methods of treatment.

The Mechanical Johysicians arose about this Time who con sidered the Body as a mere Aydraulis Machine, never regarding the mind or sentient principle but were for demonstrating way phanomenon on Mathematical principles, thus forming very strange Theories with regard to the bure of diseases - They were superseded by Hoffman, Stahl and Boerhaue each of whom formed a system which has numerous Hollowers to this day.

Hoffman was an admirer of the Mechanical System and was well versed in Chemistry. He was a plain, goodnatured honest candid Man. He is often tedious. He first took notice of the Sentient principle. He and Stahl were cotemporaries and Rivals and for a long time divided all Germany between them. Hoffman was rather viedulous and too fond of his Nostrums (the preparations of which he kept a secret) and which he extols highly and attributes great and cardinal Elvitues to them.

Stahl was first raised by Hoffman, but soon became the Rival of his Patron. He was a man of an acute and penetrating Genius From some hints thorown out by Plato, Dolows Wepfer and others he supposed the rational Soul to preside over the System. He as cribed the greatest part of diseases to a plethora, and attributed all brises and the like Offers of Nature to a Rational Soul. From the notion of plethora he made great use of allocties to promote the Hamorrhoidal discharge & thereby to diminish that plethora. He may be consulted with advantage in diseases wrising from obstructed Menses, in Hamorrhages and in other disorders which are owing to plethora. He was the Head of a numerous Seet in Jermany His followers were particularly accurate in giving the Ristory of diseases. He first attended to the New ous Sys.

time Boerhave lived about the same time. Every Branch of Medicine is much indebted to him. He was a Man of incredible applied.
tion and solid Genius. He was very eloquent and by that means recome
mended his doctrines much to his pupils. He was attached to no best
but took what he thought proper from them all and thus formed a compleat System. He took the doctrine of Sentor and Obstruction from Belli,
no and the Mechanical physicians; of acids and alkalies from the Che.
mists and of plethora from Balen. He however entirely neglected the
Nervous System. For this some of his disciples made amends, particularly Haller who has very particularly considered the Saws of the Nervous System.

The present System is now complete as it takes in allthe parts the by no means perfect. Altho Anatomy Botany and Chemistry sum to have wisen nearly to their highest degree of perfection; medi-cine seems at present to be in a low State.

important Lessons. We may observe that systems are of infinite freque important Lessons. We may observe that systems are of infinite freque dice in Medicine. They are a refuge for Idlench and are a kind of Common place Book to which the indolent may have recourse on all Occasions. Within these thirty years Medicine has made no Im: provement except in the Island of Great Butain. In Great Britain cohere no Man ever rose to such a pitch asto dictate to his Countrymen Medicine has been more improved than any where else the 30 years ago, the British were inferior in Medical Knowledge to their Meighbours.

We also learn the Mischief arising from Theory and false Specular tion and that Theories ought never to be admitted but when founded on thats.

The Variety of Sentiments which prevail on the animal Oc. conorny render it necessary for me to give you my Opinion on this Head as it will tend to about us in accounting for the Operation of Medicines and will probably appear new to many of you on account of their being so different from the Sentiments of the generality of writers. I would not wish to influence your Opinion in preference to your fudgment and I shall endcavour to give you nothing but what appears to me to be both town and of service in the practice of Physic.

The most ancient Opinion is that of the Rational Soul presiding over and directing the animal Functions. This Notion was held by Pla. to, Helmont, Dolaus, We plus and particularly by Stahl. This last union and already observed the Rival of Hoffman. He revived this Opinion and us hered it into the Woorld with all the advantages arising from extensive Searning and great Genius. He had numerous Hollows in Germany and in other parts of Europe: in many places in Germany his Dortine is still recieved. D. Nicholls of London and D. Portu. field of Edinburgh are the only persons in Britain who have embrace his Opinion.

Stahl and his Followers from their notion of the Soul, in general, that they might not disturb her in her Operations, employ: ed but weak and in general trifling Medicines: and this will always be the base with those who trust too much to the Operation of Nature.

another Opinion is that of Borelli Bellini, Petedirn and others who considered the Body as a mere Hydraulie Machine and attempted to account for the Operation of Medicines entirely upon mathematical principles, the size Liqure Ica of the particles, They entirely neglected the nervous System which in my Opinion is most to be regarded in accounting for the Operation of Medicines. The Body consists of three parts, the simple Fibre, the mosting Fibre or Solida viva and the Plecials. By the solida

viva or moving Fibre we mean all those parts that are endued with Sensibility and Soritability. Of these properties the Nervous power & Sensorium Commune are the Foundation. The extent of the nervous power over the System is considerable. It is found in the Muscles of My luntary Motion and wherever Muscular Tibres are found, in the Alimentary banal, in the Bronchia and Lungs, in the Heart and arteries, in the Glands and Excretories and in the whole Lymphalic and absorbent Systems. The Simple Ribres and Policids have new there Sensibility nor soritability.

Much Stress is commonly laid upon the laxity and rigidity of the simple Fibre and Medicines are generally prescribed to produce a Change in them, this is not entirely to be disregarded. They seem how ever to increase uniformly in Firmness as the person advances in age and I can have no I dea of any disease in Old people from their lax. ity or in Children from their tigidity. I believe it is little in our power to produce any change in them. If any change occurs from Medicine it is from alterations made on the moving Tibres. If any change can be brought about it must be very gradual, and Exercise and diet will do more towards it than alt the Medicines we can employ.

Since the discovery of the Circulation, Physicians have applied themselves to the Aydraulie, mechanical System and have fallen intoma. my Absurdities. They have in general considered the secreted Aluidsas a briterion of the State of the Thirds whereas the appearance of these different Secretions should in general be asviibed to the State of the Secretory Organs. The augmentation, Diminution and derimony of the Secretions have been astribed to the different State of the Bluids. U. rine has in almost all ages been considered as a Criterion of the State of the Blood. I shall give you an Instance here to show you what absurdities even great Men will be quilty of when they Suffer themselves to be led away by wrong Theories. Aucham speaking of hale limped Urine which occurs as a bad Symptom in fevers foreboding Delirum, supposes it to be owing to a seperation of the Red Globules & Coaquilable Lymph from the Scrum & advises acids and Saponace. ous drinks to be employed to unite more readily the seperate portions. acids are proper to moderate the Heat and allay the Thirst, but on a very different principle from what Aucham supposes. This Seperation

Seperation it is certain could not possibly happen whilst Sife remains. If we ascribe this appearance to a Spasm affecting the Sidneys we find that acids are indeed proper, and we find why it is a fatal Symptom from the spasm affecting both the internal & external parts of the Body

most diseases have been ascribed to the different State of the Blow, its acrimony, density to. But in my Opinion these Considerations mayin general be omitted or entirely dis regarded. The state of the Fluids depends entirely on the state of the solids. Thus in a strong and rigid habit of Body wel find a rich dense Blood; in a weak relaxed Habit use find the Blood thin and watery. Physicians have commonly directed Medicines to be given to obviate the different kinds of acrimony which they supposed to take place. There is however but one species of acrimony agreed upon, the pertrid, which occurs in the Sourcy. In this base how. ever we can do nothing with Medicine without a negetable diet; & if a Regetable diet can be procured no farther Medicine is neces any Medicines taken into the Stomach can have no considerable Effect in changing the State of the Herids, no they there suffer the powers of digestron, are converted into Chyle, and have their Virtues changed by being rendered mild and mert. I accept saline Substances which are taken up into the Blood unattered; they are however only suspended in the Serum and pape off quickly by thine and can never change the Fluids: if we give a large quantity of them they will prove hurgative & none will then be taken up. This is likewise the base with all those acrimonious Medicines which would have a Chance of producing an Alteration in the state of the Fluids. As the simple Fibres and Fluids are not acted whon by Medicines, they must of Consequence exert their effects solely on the solida viva or moving debres which are endied is Sensibility and Svitability which depend on the Mervous power, Brain and dens orum Commune or Centient principle.

The Nervous System has a very general Consent over the whole System and thus pain and pleasure are communicated from one part to another: This a locked Jaw is most commonly produced from a princture or hurt of a Novue in the Extremities: it is produced by the Consent of one part with another. But though this Consent

Consent is general, yet some particular parts are more liable to be affected than others. I do not pretend to give you all the different consents for that would be impossible. I only at present speak of one, that of the stomach which is more particularly to be regarded in accounting for the Operation of Medicines.

Mothing has more considerable Effects on the Mind Man a dis ordered state of the stomach, and the stomach is likewise much affece ted by the State of the Mind. This ever see in Hypochondrian persons, whose disease which is chiefly situated in the Stomach, produces grevious Effects on the Mind or Sensorium Commune or the Seat of it in the Head. In Wounds of the Head the poraceous Womiting of Bile proceeds from a consent between the Stomach and Liver. Secondly the Stomach has a considerable bonsent with the Heart and Lungs independant of The Occurrity of those parts. The palpitation of the Heart in Taysteric and Hypochondriae Cases is owing to this Consent and nothing will sooner rehere it than a small quantity of Brandy. Wine, Rum or any other Cordial, that will remove the Dritability of the Stomach. I have known the pulse to beat 140 Strokes in a minute, where the yout has passed from the Extremities to the Stomach, but whom taking any stime lant as Brandy, Wine to which would send the gout back to the Extremities, the Julie would return to its usual state. Moshing is more common than Indigestion & acidity producing a trit of thousth. ma in persons subject to that disorder and when the disorder is removed in the Stomach the person is freed likewise from the asth. ona for the time. There subsists also a considerable Consent be tween the stomach and Extremities. This persons subject to the foret often experience in its sudden Transitions from the Extremities to the Homach and vice versa. This disorder never gets into the to = mach when it is in a proper state and only affects it when relaxed. The Stomach is connected with the surface of the Body and with the small Defels over the whole Frame. This is evident from various Considerations. No some do some Uliments reach the Stomarh of parte. cular persons than shots and Efflorescences are produced on the Skin. Van Switten has an Instance of a person who could not take the smallest quantity of Crabs Eyes without these Effects being produced. Imyself knew a person afflicted with the hypochondrias disease, who was relieved of his Complaint by pimples appearing between his Thumb

and horefinger and as immediately oppreped upon their retropulsion or disappearing. These Appearances are commonly supposed to be owing to acrimony of the Fluids but falsely, as they are produced instantaneous.

Consent. This most commonly occurs in the bold that of Intermittents when every Rody allows the Construction to take place. Nothing will sooner check this Comiting than a draught of bold Toater and we find that the same application will oftentimes produced weat more readily than our most powerful sudorific and diaphoretic & diaphoretic Medicines. Diarrhaus and Dysenteries are frequently if not always owing to a construction of cutaneous poses and a supprepion of the perspiration, and we cannot cure them unless we first restore the perspiration. These disorders are most commonly as cribed to a vitiated state of the Thirds, but this earnot be the base, for if it were, they would come on gradually when as we find them to come on almost instantaneously after exposure to bold and are as instantly cured.

The princeples of diseases are not as is commonly supposed, lodg: ed in the simple Fibres or Fluids. The Fluids may be affected secon. darily: but the bourse of most diseases appears to be placed in the So. lida viva and Sensorium Commune which being endued with densibility and Irritability are more biable to be affected than the Simple Fibres or Fluids - Thus it is a very general practice and a very judicious one to exhibit a Teornit in Intermittent nevers before giving the Bank or any other Medicine to check the sever. The good of feels however do not depend whon the Evacuation of the Contents of the Stomach which is produced, but entirely on the sudorific and diapshore. tie qualities by which the Construction of the Durface of the Okin is taken off. This is evident from the same good Effects being produced when the Medicine is given in such small doses as not to occasion antes. cuation but only a Nausea. The Bark should never be given before a determination to the Surface is produced by these Means, as it can otherwise do mo good and may even do a great deal of Mischif. When astringents are employed to check Hamorrhages of the lite. rus or any distant part, they exert their Effects oftentimes, before they could posibly arrive at the part by means of the Circulation. When Opium is used to relieve any Saritation as a bough, we find the Ver son much easier as soon as the Opium has arrived in the Stomach. It must therefore act on the Nervous System. The Experiments of D'Mon. To, P. A, in Edwinburgh prove this beyond a doubt. It invitibled his Experiments on Brogs, which animals will live a considerable time without their Stoats. After taking out the Heart of a Greg, he applied opium to the Museles of the leg laid bare and found it exerted its Effects in the same marrier as when the Fleart remained: that is, the Animal was defound of Sensibility and the power of Motion. He then applied at the Spirit of Flastshorne and roused the animal from the Insensibility into which it had been thrown by the application of the Opium. Here the Medicines must surely have acted on the Newvers System, as the Circulation was entirely destroyed by the heart being removed.

From what has been said I am inclined to form this Conclusion that all Medicines exert their Effects on the Body by Operating on the Nery vow System and those taken into the stomach by being applied to the Morves of that Organ, which are very numerous; and not by being taken up.

into Telsels.

I hope I shall be justified in making the following Conclusions from what I have said. That our Body physiologically considered consists of three parts, Solida viva or moving Tibres, Simple Fibres and Muids. That diseases must be lodged in one or other of these parts. That the moving ribres from their Sensibility and Irritability are oftener affected than the simple Tibres or bluids. That Medicines at least those which produce strong Effects act on the Nervous System. That the Laxety or Rigidity of the simple Fibres is a fixed and constitutional Infirmity and not an occasional disease to be removed by Medicine. That the diseases of the Chaids are not so numerous as from looking into authors we find they are imagined to be and when they are affected they are rather to be changed and restoned to their healthy state gradually by milder Remedies and Diet....

The.

The Materia Medical comprehends everything that is used in Medicine or diet. The pharmaceutical Branch has been commonly thought to be the whole that belonged to this Tubyect but surely the dietotical part deserves a place as well as that more strictly termes medicinal, as the bure of diseases oftentimes depends as much whom a well regulated as whom the Exhibition of proper Medicines.

The Books that are best calculated to a faist us in our Enquiries upon this Subject are the following. Sewis in his Materia Medica and the New Dispensatory has given us something useful; but they are rather to be considered as the loose difficulted than a proper System of Materia Medica. He follows the alphabetical order by which means his Subject is so interrupted that it is impossible for the Reader to follow him regularly and he is therefore only fit for occasional bonsultations.

Geoffroi has first divided the Substances as got from the three king. Nome and in the Vegetable he again subdivides them according to the different parts of the plants made use of as Roots, Herbs, Barks Vep. But in treating of the individuals he has fallen into the same Error & is liable to the same Objections with the author of the new Dispensatory. You are to observe that his first and second Volumes are much preferable to the succeeding ones, for these were published under his own Inspection. The others were published after his decease from erroneous Notes of his Scho: lars and oftentimes contain Sentiments quite contrary to his real ones.

The celebrated Sinnous has followed the Botanical Order in describing the Victues of Substances belonging to the Materia Medica. But though plants of the same Order and Genus are frequently found to correspond in Medical Wirtues, yet as it does not hold universally, it is liable to exception.

Cartheuser's plan is less exceptionable and preserable to any other De ranks them according to their sensible qualities, by which means you have a Number of Substances connected which corres: hond in Medical Clirtues. But this plan is not quite sufficient and he is obliged in many places to follow Indications in the lowe of disorders. This plan is also pursued by the celebrated De Meuman.

There is no doubt but bartheusers plan is the most preprable. He distributes the Medicines according to the Indications they answer and thence infers their Utility in the several diseases - This plan is also followed by D. Cullen of Edinburgh, whose Materia Medica published hew some time ago is , I suppose in all your hands . Cullen has all the advantage of any of the others and is not liable to their Exceptions. In the Copy published hew Inbullen was not at all concerned and it appears to have been frunted from the imperfect Notes of some Students who attended his Sectures. It is not so perfect as we could wish it to be, or as we would expect it to be, had it come from the Doctor himself, who is so ingenious a Man and skelful a Prac. titioner. Imperfect as it is, it is but doing justice to the Book to say . that it easeeds almost every thing, that has been heretofore published on the Mato. via Medica. The plan which is pursued in this Work is exactly the same it. the one I shall follow in the Course of Sectures and for this Reason it will be particularly useful to you. Great part of our Time would be spent in ma. king general Observations and Reflections If we had not such a Work where as now I shall have more time to make applications of the Materia Me: die to the practice. I am informed that a new Edition of this Work will soon be published under the Inspection of I. Cullen himself, which we may reasonably suppose will exceed any thing that has ever been published on This Branch. By popersing D. bullens Materia Medica and practice of Phy. sie you will be enabled to attend these Sectures with greater advantage. In his practice you will find the History of diseases delivered in a very accurate manner and by attending to this and the Course of practice he delivers you will reap more advantage from these Sectures than you would otherwise do.

In Smitation of D. Cullen I shall distribute Medicines under three Heads according as they are directed to act 1st upon the Simple Tiebre; 2 the Moving Tiebre and 3 the Fluids of These general divisions are again subdivided into Classes comprehending Medicines of similar Virtues. It is to be observed that these general divisions are entirely arbitrary and calculated merely to essist the Memory It is how.
ever no Matter whether they are entirely proper or not provided the Classifications are exact. An Instance of their not being exact we have in rank
ing astringents with those Medicines which act on the simple Fibres
whereas their principal action is on the moving Fibre.

The first blass to be considered are the Nutrientia.

By this Term we mean every thing employed by Mankind in their daily Food and thus comprehend under it not only those Substances which are cal culated for the Nowieshment of the Body but also those Substances which are taken in along with our Food torender it palatable.

all our aliment is of two kinds Degetable or Animal. As all animals even those that live on other animals originally live upon Degetables, it seems pro-

per to consider Vegetable aliment first.

Vegetables are subdivided into those which serve for Medicine and those in are more properly a dapted for Nourishment . The mild, bland, insipid, inside, rous Vegetables are most proper for Nourishment, while the avrid, bitter, nause. ous and those of a strong I mell best answer the purposes of Medicine. It is however probable that there is no plant but what affords aliment to some animal or other, for it is not to be supposed that any thing is made in vaing thus some of the rankest Poisons to Man are innocent to other animals; & some innocent to Man will kill other Animals. A few Instances will tend to ellustrate this : Hemlock which is very pois mous to Man and which was employed by the ancients to deprive their State prisoners of life, affords a wholesome and agreeable Food to the Horse whilst ground Ivy which is at least innocent to Man will kill the Forse, if he eats any quantity of it. many legetables of an acrid nature may by wasting or boiling be rendered will. The Indian Turnels which in its recent state is very acrid, by roasting is rendered perfectly mild and then affords a wholesome and ago. able thood .- The Casada which in its recent state is very pois on our, by proper preparation affords Bread to most of the Inhabitants of the Western: dies. In general however we may observe that none but mild and bland Substances are fit for Tood or Nowishment. Mustard, Crepes & all the other acrid Substances and Spices we employ in diet of which the chief are the aromatics as prepper by are not used as nowieshment but merely to correct any bad tendency in our aliment or to render it mon halatable. These are called Condiments.

Defore we proceed any further it may not be improper to inquire into the bound ses of Hunger. Were we to consult our own Feelings we would not find it difficult

with Simplicity and what is evident to every person: Represent is need, wary to show their Ingeneity; and however paradoxical it may appear, it is detain that few Physiologists have been of the same Opinion with regard to the Cause of this Sensation. The celebrated Fofman attributes it to an airs remaining in the stomach from the former Neal and this Opinion he thought confirmed from the well known Dast, that acids taken into the Stomach create or increase this appetite. The Stomach is often times entirely emplies by Clomits and purges and hunger still remains and is oftentimes encreased.

Boerhaane, Haller and others suppose Thinger to arise from a rubbing or Friction of the bolds of the Stomach against each other. They reason thus: when the Stomach is empty, it being a Mustular Organ, will contract & the opposite sides being brought to gether the Folds will rul against lack other and produce Hunger. But the Structure of the Stomach will sufficiently refute this Theory; for as it is round or conical it is impossible for it to contract so much as to bring its opposite sides into Contact, and even if it could the boats are so defended with Mucus, that no uneasiness could be produced, unless the stomach was diseased or the Mueus abrades. This Theory therefore will apply no more than the former. Aunger is to be accounted for solely from the Emptiness of the Homach. I am fully convinced that no person in Health ever craves Food while his Stomach is full, nor untill it is relieved from the load of the former Meal. altho at times we find persons who feel no Aunger when the Stomach is emply and others who are continually craving the the stomach is full; yet these persons are never to be considered as enjoying a good State of Health and Instances taken from a diseased state ought not to be employed in accounting for any thing in a sound state. The continual craving for Good seems to be owing to some affection of the Nerves of the stomach. When we come to treat of Indigestion we shall consider the causes to which a los of appetite is owing

It has been a question often delated whether Man was intended to live upon an animal or a Wegetable diet? We shall pay some attention to this Particular.

Not only some particular Men, but also whole Nations in all ages have

have subsisted solely on legetable Diet. The persians and great part of the Inhabitants of the Southern parts of Asia live almost solely on dates. In the great bities of Frand bairs and Constantinople, the poorer Sort of people live almost entirely on businbers . The arab lives on Fruit, Water and Goals Mills The Capada alone formerly afforded Subsistence to the wilder Inhabitants of the West India Islands. In the Highlands of Scotland we find the people it go. neral live and grow robest on Oats and Onions a On the Contrary there are some Nations and those not fewer in Number who live entirely on Animal Diet. Their great part of the Inhabetants of africa line upon Fish. The Inhan bitants of the Northern Countries as Sapland, Greenland, Iceland & where the Ground is covered almost the whole of the year with Frost and Inow, so that the Earth cannot furnish Degetables for their Subsistence are con. strained to live almost entirely on Fish and such other arimals as they can procure. The best accounts apoure us, that the wandering Scythians and their descendants the vartars live almost wholly on animal rood. The Va. tagonians are said to have a great aversion to Bread and are very form Ganimal Food particularly of Horse blesh. A Nation has been lately dis. covered in the castern archipelago, whose Country is so barren as not to pro. duce any legetable not even grafs, so that no Animal can live there except Man. These people subsist entirely on the Shell thish which the sea throws up on the Shore, at every Mood Tide; They spend the whole period of a misera. ble and wretched existence in searching for Good, and are but one degree re. moved from the lowest of the Unional Creation. Man appears upon the whole to be intended by Mature to live upon both Animal and legetable Food. He has both the Dentes Caniaries and molares; that is the cutting Teeth peculi. ar to the Carnivorous, and the Grinders of the Herbivirous animals. The In testines of carnivorous animals are very short, as their aliment is already an animal Mature and requires no digestion: Herbivarous animals Man long Intestines, because their Frond requires a long diges ton before it can be converted into an Animal Nature and there is therefore les danger from pute. faction taking place in too great a degree. We find the Intestines of a Man neither so long as the one nor so short as the other but in a middle state between them. We find from Experience that persons who subsist on Vegetables are weak & relate and constantly subject to disorders of the Bowels. an animal diet produces more dangerous diseases, truptions on the Skin, the Survey, the Leprosy Dysen.

tery and other putied and Malignant disorders are often the Consequence of too free a Use of animal Food. It conduces to the Health of Man to partake of both. In general, now a days the Use of Elegetables is most indulged by the Inhabitants of the North live principally on an animal Diet. This is consistent both with Reason and caperience.

Of Condiments those that are most generally employed are Salt, Vinegar and Sugar. Salt is employed with animal Good to render it more savoury. It also resists putrefaction. Sugar is the most wholesome Condiment we can am ploy. It is very nutritions and we may justly affect that all Vegetables are more or less nowishing in proportion to the Sugar they contain. It is a powerful and hence is useful in putrit diseases. Dr. Pringle thinks that the less frequent appearance of the Plaque and other malignant Disorders in Europe of late than formerly is owing to the more general use of Sugar. It may be extracted from all the esculent plants.

Whatever aliment we make use of, Chyle is formed from it, which is taken up from the Intestines by the absorbent We feels created for that purpose and by them conveyed into the Thoraxie Duct which opens into the left subclavian Vein, where the Chyle is mixed with the whole Maps of Blood, from which afterwards all the different Sceretions are made, as Urine, Bile Semen Vep. Mone of these Thirds are originally or at least formally present in the Blood: no more than Rum is contained in Sugar or Spirits in Wheat or Ryo.

We shall new consider digestion that process by which our aliment is converted into Chyle. We shall first consider the Lequore subservient to this process which are Saliva, Liquor Gastricus, Bile and Pancreatie Juice.

The Saliva by Experiment appears to be composed of Water and a small quantity of a certain viscid Matter with the Mature of which we are but little acquainted. Heat resolves it into the same Materials with other Animal Signor. The first person from whom we received any proper Notion of the Use of the Saliva was D. Pringle and afterwards De Macbride. From the Experiments of Dr. Pringle it appears that upon adding it to a Mixture of Beef. Bread and Water it promoted Termentation but at the same time moderated that Permentation so as to prevent it from running into the acctous or putrefactive and it probably may have the same use in the Body. It is very apt to form bon cretions or balculi like those of the Urine. The Concretions or balculi are often found in the salivary dusts particularly those under the Tongue. The Convertions

cretions that are formed about the Roots of the Teeth are owing to the Saliva.

With the Fastice Signor we are still less dequainted than with the Saliva, as it is difficult to get any of it in a pure state. Nothing tendsto show the nature and use of it more than the Experiments of Mr. Redument on different Birds. He instituted these Experiments with a View to determine the disputes of the Paris Academicianis concerning the Manner in which De gestion is performed. His Experiments are not only ingenious but very accu.

The Chemical Physicians asouled Digestion to a Solvent which they said acted like aquafortis - They even pretented to determine it tobe a ve ry strong acid. The Mechanical physicians as Borelli, Bellini & Petcairne ascribed it solely to triture and Mechanical Force. They considered thete. mach as a Muscular Organ and after finding the Force which smaller Muscles could exert they endeavoured to compute the horce of the stomach. Mr. Reaumun showed that neither were entirely right, though perhaps neither were wholly wrong. He beganwith a Turkey, a Towl whose sto, mach is remarkably strong and muscular and which always fallows small stones to aprist its degestion. He made it swallow Glass Tuhes which he found broken in its Stomach after some time. He then tried thin metal ones which the not broken were compressed and rendered perfectly flat. Hepro. ceeded untill he got Jubes strong enough to resist the Force of the Stomach. In these Tubes he inclosed Grains of Barley and stoppes up the Ends in such a manner that nothing could escape unless in a Fluid Form. After these Tubes had remained in the Stomach two or three days he found that no change had taken place except that the grains were swelled but not more than they would have been had they been soaked in any other liquon with the same degree of Neat. In this rowl, then Digestion sun to be carried on wholly by Mechanical Force and the Gastric Juice does not act as a Solvent . Its Conversion into Chyle certainly depends upon the miature of certain Huids, but the first degestion in the Stomach of this Bird depends on Mechanical Triture.

He next tried Experiments whom a Hawk whose Stomach is very thin and membranous. This howl is particularly fitted for such Experiments as it throws up whatever it has not digested. De found the thinnest suber could resist the Force of its Stomach. Ale inslosed in perforated subed flesh

Hest and found it converted into a mere Mucus without any bad Smell the tried the hard Bones of an Ox and found them defootsed also. He then incloved Grains of Barley which were thrown up without being in the least changed. Here then We have a Solvent of a very curious Nature which will dipoloe Flesh and even Bones and yet has no effect on legetables or even on the Stomach of the animal. From this we are not to infer that the gastrie Theid of Man acts as that of either the Jurkey or the Hank In the Dec. man Stomach Degestion seems to be carried on entirely by vermentation: There is no doubt but that the full digestion or Conversion of our Alement into Chyle depends upon the Mexture of certain Fluids. But the first Digestion in the Homach seems to depend wholly whon a Fermentations of this there are three Species, the Winous, actors and putrefactive. Of their principles we are entirely ignorant. We cannot explain them and canonly make you acquainted with them by analogy. Of the Unious Fermentalin we have an Instance in Wine, Beer, Cyder be, whon these Liquors turn sour we term it the actous Formentation. The puttefactive rement. ation more commonly occurs in animal Bodies; the Wegetables are also capable of it. All Substances paps this these different species of fermentation before they become putied. The Vinous and acctous dermentation take place in the Atomach and the putrefactive occurs in the Intertines. All the aliment in the Stomach is assessent, even Flesh for an acid can be obtained from the Stomach of all animals even those that are Carrivorous, and the Homach of all animals will coaquitate Milk. Persons who have for several days lived on Animal Good, when they vomit throw up an acid. The acescent aliment is mixed in the Dioderum with the Bile & is there rendered of an Animal Nature & Bile is another Fluid which is of Service in the digestion of our aliment. It is only since the Experiments of D. Rams ay . Phofe por of Natural History at Edinburgh, have been published that we have any tolerable Motions concerning the Nature of the Bile. D. Maching has since for executed this Subject. These Experiments were made on the Bile of different Animals but more particularly on that of the Ox.

KH.

that we have any tolerable Motions concerning the Nature of the Bile. D. Maclung has since he orecuted this Subject. These Experiments were made on the Bile of different Animals but more particularly on that of the Ox, from the Nature of which last all the Opinions concerning the Nature of the Duman Bile have been formed. The Bile has been supposed to be of an alkalescent or Justiceent Nature and that by this property it neutralized the accepted aliment. It has been supposed to be of a saponage ous

saponaceous nature and that by this Quality it was of Use to promote the inexture of the vily and Watery parts of our Aliment. D. Ramsay's Experi. ments sufficiently refute both these Opinions, when he attempted to Mix Oil and Water by it, he constantly found his Endeavours fruitless. He found he could not succeed so well with it as with a solution of Jugar which is for inferior in this Espect to a Mucilage. That it is not alka lescent or putrescent is evident from its standing many years without becoming putrid. It will indeed emit a musty smell, but will not smell putrid or generate ensets all the fossil acids eg. the Ortriolis have the power of precipitating the gran part of the Bile in which the Bitterness is lodged. Four harts of Vinegar as ded to five parts of Bile produced a sweet Liquor which would not coaquelate Milk altho the least particle of Vinegar will do it seperately. Bile mixed Water and Spirit of Wine without much Seperation of parts _ From here it oppears plain that the Bile does not by any alkalescent tendency new tralize the acescent alement. All animals are provided with Bile, both Carnivorous and herbivorous. In the latter were it putrement it might not be productive of much Insorvenences, but in the former it would as tainly be highly injurious. The can assign a much better use for it. all Bitters prevent rementation. The Bile is one of the strongest Bitters in the ture and from this quality tends to prevent an immoderate Fermenta. tion either of the acctour or putrefactive kind from taking place in the In testines. Thus we add Hops to Beer to prevent its turning sour. We admis. nister the Bark in Cases of prevailing acid in the Stomach. We also as. minister this Remedy in alysentery and other putrid Disorders. Meating ped in Wormwood is preserved from putrefaction.

In the Stomach there is always an actions Fermentation which verges to the putrepative in the Intestines. We are lottle acquainted with the pancreatic Juice. It appears to be of the same nature with the Saliva. It probably acts principally as a diluent to the Bile. It may also assist in preventing an immoderate Fermentation.

I have none considered the Signors subscricent to digestion and have endeavoured to established bermentation as the Cause on which this force refo depends. I must now take notice of a Theory which endeavours to account for this process entirely from Solution and considers the Gasta Liquor as a Solvent. The Basis of this theory are some Experiments published

contain and according as they are blended together and form the farindu. our Substance proper for Nourishment. The more Sugar or Oil any Wege-table contains the more Nourishment it will afford provided our Organs are capable of assimilating it. Thus Rye being a sweeter brain than Wheat affords more howrishment to the hardy labourer and others who can afsimilate it. It is however from this Sweetness more Termentable and is thus aft to prove purgative, for which Reason this resommended to those who are broubled

troubled with habitual Costiveness provided they are not subject to Ayotena or Hypochondriae diseases. The Costiveness which occurs in these Habits is not owing to legidity but to Laxity and lop of Jone. In robust and plethoric Han bits Regetable Aliment affords the most relief. I have often known persons a. red of this Complaint by eating Rys. Mush and Milk. When Costivenes is owing to laxity as in Dysteria an Animal diet is certainly the most pro. per. When it is owing to ligidity and increased peristaltic Motion a legetable Diet proves useful. a Degetable diet is very hurtful to persons troubled with Indigestions and Hatulenties De. The Homach here already abounds with an asid: The Fermentation increases this. Besides fixed Air or what was for merly called gas fylvestre is generated which has the power of destroying the Contractility and Mobility of the Stomach and Intestines: hence arise frem quent Syncopes and Death. Women of a tender and delicate Constitution are frequently seized with Faintings and Convulsions from this Cause, more especially after eating apples and Milk. There are certain Elegetables as bab: bages, Leas to which are particularly disposed to produce grevious Effects in such persons. These bad Effects Do not seem to wrise from their acidity, as they are possessed of that in a small degree but these Substances, being of a tough firm Texture will remain a long time in the Stomach and whilst they are undergoing the Vinous Fermentation, will evolve a large quantity of Fixed air or Gas sylvestre which will distend the Stomach and In. testines and produce violent pain and distension in particular parts That This is really the base appears from our using split peas, which being de prived of their outer husks are rendered much more soluble and may be used without bad Consequences. Children are particularly liable to be affected with Hatulencies and Indegestion from Regetables particularly from Nuts unripe, and Fruit, pastry by which often produce Convelsions The best thing to give them Telief in these bases is to administer an Emetic instead ly. Whenever I am called to a Child in Convulsions I always enquire whether lit has eat any thing which might lay on its Stomach and produce these. Effects. I have known not only Children affected in this Manner but also Strong Men particularly from eating Apples and Milk. These were to all appearances in a Fit of the Apoplexy. They are almost always relieved by an Emetic. The small frequent pulse in this base sufficiently character oges it from

happens without the Body. These Experiments in general either prove too much or nothing at all.

Bread or other aliment being taken into the Mouth is there chewedon masticated and is blended with the Saliva. In the stomach it meets with the Gastrie Liquor and in the Intertines with the Bile and pancreatic Juice. all these Fluids will prevent or check the vinous or acetous Fermentation. Digestion is much better performed when the aliment is well blended with the Saliva. You can scarcely consieve what a difference this Bireum. stance will make. For this Reason persons of a Weak Stomach should en. play Bisaut or Great hard baked. Thave known persons so much troubled with acidity that common Baker's Bread would not stay on their Stomach and yet they felt no Inconvenience from using Biscuit Chil. dren who are fed upon pap made of Flour and Water or Flour and Milk are oftentimes troubled with acidity & Diarrhoas, but upon using Biscuit instead of Flour they are relieved of their Complaints. Great to asted w. by hard will often stay upon the Stomach when no other aliment will be retained. In bases of this Nature it is not sufficient to attend to diet. It is also Necepary to regulate the drink of our patient. In all bases where a Relaxation of the Stomach takes place all fermenting and even fermented Si. quors should be entirely banished. I have known even Madeira Winetum sour upon the Stomach. The best drink is soast and Water; a little Wind or Spirits may occasionally be added. When these Substances are taken mo. derately, they stimulate and strengthen the Stomach and tend to a sist di: gestion This was the only drink and remedy employed by Dr. Frothergill in Cases of Indigestion. Various Remedies have been recommended to recover the sone of the Stomach and to assist digestion __

De bullen recommends a Solution of Common Salt in four times its Weight of Spring Water and a little Spirit of Sea Salt added to acidulate it. This he advises to be used as a common drink and speaks highly in Favour of it. I cannot say how justly he recommends this as I have never had an Oppertunity of trying it. I have always found the common Elixer of Vitriol to answer every purpose as a Medecine. I advise 20 or 30 drops of this to be taken two or three times a day in a Tuentler of Water - all the Mineral acids create an appetite and prevent rement ation of every kind and perhaps either of them will answer equally well I must

Imust not however omit mentioning some Observations made by D. Smith a Gentleman of my Asquaintance at Edinburgh, who is now an eminent practitioner at Manchester in England. He found that a Solution of Common Salt was the most considerable stimulus to the Inimal Fibre. He made his Experiments whom Frogs and found that a Solution of Common Salt would make their Musiles contract when they were insensible to every other Stemulus. From hence it seems probable that the Muriatic acid joined with the Solution of Common Salt as recommended by D. Cullen would be equally effectual and in some bases perhaps preparable to the other Acids. There are few disorders more common than those which arise from a Telaxation of the Stomach producing Indigestions by I would recommend to you to read & Cullen on this Gead in his Chapter of Disspepsias.

We have considered the Diseases in which a Vegetable diet is improper. We are next to mention the bases in which it is serviceable.

Wherever there is a disposition to putresuncy as in the Scurry, Dysentery, putrid hevers to and in all bases of Inflammatory diathesis a Rege. table diet is indicated. All persons that are troubled with Spittings of Blood Inflammatory Tevers, plecinisies & should confine themselves to a Elegetable diet It is remarkable that more people die in England of Consumptions, than in almost any place. This cannot be owing to Climate as the Scotch and Irish who inhabit nearly the same Climate are not so subject to this disease. It seems to be owing principally to the Inhabitants living so much on Animal road. A Degetable diet is the best and perhaps the only Remedy in all Consumptive Habits. I have relieved several persons who had all the symptoms of approaching Consumption, by confining them entirely to vegetable Took allowing no Ani = mal Substance but Milk. This is in most bases allowable. a legetable di. et is to be recommended to all persons labouring under Rheumatic Com plaints. Outrid Disorders with Petechia were very common in Sydenhams time as appears from his works. These are now scarcely over known in Son. dow and it appears that a much greater proportion of Vegetables is consumed in that City than in Syderham's Time. The Dysentery has been oupposed to arise from a Vegetable deet particularly from the use of rupe Fruit. This notion is entirely false and groundless and has been very destructive, as it prevented the Use of these bruits which are most proper for the bure of this disorder. D. Fisot in his advice to the people of a Book in which you will find more Candow and humanity and Good Sense than in almost any

other of equal size that was ever published has given us several Instances of ripe Fruits producing a bure in this Disorder. Amongst others he has on of eleven persons in the same Family being seized with the dysentery, gime of which recovered by the fice use of Fruit; two, the old Grandmo. ther and a favourete Child, fell a sacrafice to this unreasonable prejudice of not eating receit. As also tells us of a Swife regiment in Garrison in the South of France who were almost entirely destroyed by the Dypentery. The of ficers purchased the whole brop of several acres of Vineyard; there they can ried the sick Soldiers and gathered the grapes for such as could not bear being carried into the Vineyard; those who were well eating nothing else. after this not one died nor were any more attacked with the laysentery. Not Tipe Grapes alone are of dervice in this disorder all ripe Fruits will answer equally well - We have a Fruit in this Country which seems particularly adapted to this disease. I mean the Water Melon. D. Hafselquist in his Travels to the East tells us that Egypt, after the Overflowing of the Nile and the Waters again subside, from the putrefying of the wilth which that River bring with it Dysenteries, putrid Trevers and other malignant disorders are very common. The Inhabitants make use of the Water Melow in these diseases and drink the June of it. This in general performs the Cure and very few die of disorders which in other parts where a different Method of Treatment is pursued, prove fatal. The Water Melon acts by increasing the excretions by Stool and Urine and by outplying a cooling antiseptle Flu to the System, and thuis does more vervice than all the Cordials of the Shops which are usually given in such bases D. Hillary explodes thelised Cardiacs and Stimulants in the Yellow Fever and trusts principally to di. buent acidulated drinks and a proper Vegetable diet. A Gentleman who had been physician to a Naval Hos petale at Halifax informed one that upon a return of a Defel from a long bruise the whole brew were down with the desentery. a great Number of them died altho the Bark & other Remedies usual in this disorder were employed, untill one of the inferior Officers to all appearances just dying begged to be indulged with a draught of punch: His request was granted he took off a whole Book at a draught. This threw him into a gentle Sweat and by repealing his draughts he in a short time recovered From this the hint was take and by the proper Use of acidulated drenks the whole brew recovered. The Disentery is a desorder which oftentimes appears in long Encampments, one German Soldiers when seized with it trusts to his Mixture of Vinegais and bream which he will swallow in as large quantities as he can provere and is seldom disappointed in his hopes of a bure?

The Dysentery if not occasioned by, is always accompanied with a depraved State of the Bile. Whatever will evacuate the degenerated Theids and at the same time supply a mild antifutrescent Nourishment to the System must certainly be of Service in this base. a Few doses of Bark are not a dequate to the disorder and besides the stomach cannot bear it, but rejects it by vomiting. Ripe druits do not only agree with the Stomach in this disorder, but are al. so eagerly desired by the patient. A Chronic dysentery is frequently cured by The Use of ripe druits, after it has a long time baffled all the efforts of Me. divine. The best temedies therefore for the depraved State which takes place in dysentery, are recent, aces cent Vegetables particularly ripo Fruits. These produce and Alteration in the state of the Bile and at the same Time by ste. mulating the Intestines cause an Evacuation of the Morbid Matter. The Dissentery is never occasioned by Fruits. They will frequently produce to olio, 6 Diarrhad and Cholera Morbus. a Colic of often occasioned by Fruit. These germenting in the Stomach evolve a large portion of fixed Air which distens, the Intestines and produces grevious pains and spasmodic Contraction and if speedy telef is not given will occasion Faintings Convulsions & death, as happened to a person, who was taken in the middle of the night after eating a large wantity of Cherries, with a violent pain in The Bowels and an Inclination to vomit. The abdomen was distented to an enormous size and the every possible means was trued to give lelief the person expired next Evening. The Medicine which I have found to afford the most speedy relief in these bases is the Edatile Salt of Farts. horn or Ammonia. One drachm of this desolved in four or sia Ounces of water with a few drops of any barminative Oil and if the pain is very violent Dig. Landan. a Jable spronful of this Mixture taken every how or two according to borcumstances will generally afford telif. On it may be formed into Boluses with bonserve of Roses: five or six grains may be given in each Bolus with a quarter, half or even a whole grain of powdered Opium. Notwithstanding all our Efforts the pain will some. times continue and the patient expire - I was called upon to visit a perin his Stomach from drinking a Coup of Buttermilk which had stood our Night and had become sour. I had recourse to Opiates, the Wolatile Salt &s. mentations to the abdomen and had the patient put two or three times in the warm Path. Notwithstanding all those Applications a constant Do. mitting remained in the Stomach and the patient died within twelve hour from the time I saw him. From the small frequent pulse in this Case & the Coldnep of the Extremities I am morally certain that a Mortification of the Stomach took place which killed the patient.

The vulgar practice of eating Checker after Fruits is a very good one, as Cheese, especially when old is of an Animal Nature and will tend to ob viate the bad Effects of the Fruit.

A Dearshow is oftenowing to a too free Use of Fruit. It arises from the acescent liquor of the Fruit mixing with the Bile and stimulating the Intestines. If attended with no other Complaint, it scarce deserves the Mame of a disease, but ought nather to be considered as a healthy Evacua. tion. If it is troublesome, a dose of Whubarts will generally remove it.

liquor they produce stimulating the Stomach and Intertents occasions low cuations both by Comiting and Stool. Warm Water, Warm Jeas, or Chicken Broth drank plentifully will generally give Celief by diluting and evan cuating the offending Cause. If Comiting should continue merely from intability of the Homach, a large dove of Land aroun should be given and repeated untill the Comiting ceases. If the Batient is platherie we should advise Bleeding least a Cupture of some Blood Clepel in the Head Lings or Stomach should be occasioned by the violent Straining in Comiting. You are to observe as long as the Comiting is without Shasmed there is no danger and we need not be solvitous about it. But as soon as ever spashes occur either in the Stomach or other parts we must have immediate Recourse to Landanum which is to be given in sight doses and repeated at such Intervals as will effectually put a Stop to the Complaint.

Vegetable Aliment is the best preservative against the Scurry and when this disorder has actually taken place it is the only thing to be

Many disorders seemingly of a quite different Nature have gone under the name of Sciency Thus any Eruption on the Skin for which the physician and is at a loss for a Name is said to be owing to a scorbutic habit of Body. This oftentimes satisfies both patient and physician and Medicines are given for a disease which perhaps exists only in their I magination -

By the Survey Imean what is more properly called the Sea Seurvy This disorder generally begins with a lapitude and Deavisies of the Body whit is considerably increased in the Morning, unless the person has perspired freely in the Night; a recakness in the Back and Sinces; an Aversion to Motion and a Weariness upon moving never so little. The respiration is labourious with apalputation of the Heart. The Countenance loses its healthy Colour & becomes bloated and yellow and after sometime againers a greenish hue. The Corners of the Eyes appear whitish and even yellow. Sadness and Sorrow take place over the whole Countenance: The Gums itch, burn and smart; The Feeth are frequently elevated in their Sockets; Blood flows from the Gums upon being touched never so slightly. There are also partial Tumours formed in the Tums which are to be cured by opening them. The Gums opposite the Jaw Jeeth are most liable to be affected and the outer and inner Gums are often affected at the same time. The teeth lose their Joory Whiteness: They become yellow and as the disorder advances become black. They become loose and may very readily be taken out. If there is a decayed Tooth in the Head then is a pain in the Jaw in that place increasing in the Night, but not other. wise. The Breath is very offensive: the Saliva is thin and acred. There are great pains in the Joints especially in the Knees and ancles. There is oftentimes an acute pain running from the ancle along the Tibia to the Knee: sometime it extends along the Thigh to the Grown. a crackling Mase is heard in the Knee upon moving. The pains are greater in the Evening but upon the persons getting into Bed and perspiring freely. They are conside. rably relieve and indeed in Sweating the life of scorbutis persons may be said to consist. In the beginning there are sometimes pains in the Thorax which are not fixed but seem to fly from one part to another but chiefly across the Breast. They are attended with a Difficulty of Brea. thing with a sense of Weight in the Breast as the disorder advances this weight and Oppression are increased and show that the Vital Powers are

from prefing the Thorax externally. The Auscles all over the Body are very much relaxed and very meagre: and they seem as it were seperated from the Bones. The Skin appears from the beginning like what is called Goose Thesh and is hot and dry. In hairy persons at the Roots of the Hairs on the legs and thighs appear pustiles which are red, yellow, purple and sublivia. In smooth skinned persons there appear shorts like These appear red livid and purple. Scars from Wounds and When Skin These appear red livid and purple. Scars from Wounds and When change their Colours to first appear darker than the rest of the Skin and as the disease advances the which appear yellow, purple and black and wometimes these Colours are all mixed together like the Colours of the Rainbow.

all these appearances are trifling in comparison with the sumours that are formed on the Simbs. These are at times preceded by great pain, at other times there is no pain at all. These are produced into following manner. On the Surface of the Skin appears a small shot which is first percievable by being of a different bolow from the rest of the skin, tending to a darkish, brown yellow and a little elevated. This increases from day to day running along the limb. It is at first moveable but as the dis. order advances it becomes immoveable. It has various bolours, purple, livid, lead, black and aloto gether. as the disorder advances it penetrates into the Muscles and appears to a shew to the Bone it communicates an un. easy Sensation of heat to the touch. This Sensation of Heat is very different from that which occurs in Inflammatory Sumours. Putrid Jumours always con municate a pungent Heat to the Finger. The Tendons and Muscles are of feeted: they are contracted very much and the patient is unable to extend his leg; so that he is obliged to walk with a best Knee on tip toe It is remarkable that both lego are never affected in this Manner at the same time. They seldom affect any part but the Legs. These Sumours noi. the inflame nor suppurate and never exercite. They remain untilette Portient dies or untill he is recovered of the disorder. There is also a swelling of the rest and legs as in the dropsy which it resembles in this that the am

cles swell towards Evening. As the descase advances the whole leg is affected. It may readily be distinguished from the dropsy by the Kein being discoloured it appearing Yellow and black. It is likewise more difficult to make an Indentation in this Swelling than in the dropsy, but when it is made it is much longer filling up. There are no Uliers formed unless the Kin has been previously broken and then a very bad Men is produced. These Wheers may readily be distinguished from common Ones, by their generating no pus and upon openning them a black concreted Blood appears in the Bottom of them. They sometimes from a fungous Flesh very quickly which the taken away away by this lings or Medicines returns as Suddenly. These Ulcers are commonly situated on the Spine of the vibia. They are much worse when below the Ancle. They seldom affect the Bone the they torment the patient for a long time. We have now enumerated the Symptoms which appear without the Body, we are in the next place to enumerate those which appear without the Body, we are in the next place to enumerate those which account the Body.

Fevers seldom or never attack persons in the Seuroy. This is a very happy Cercumstance, for were a Frever to occur it must be of the putrid kind which would soon determine the Frate of the patient - They sleep pretty well and are never broubled with Head ache which is so common in other dis orders. The Tongue retains its natural appearance except that it is sometimes some. what yellow. They have no thirst, have a tolerable good appetite benjoy the full use of their denses untill the hour of their death. In the advanced stage of this disorder the pulse is very weak and small and beats from To to go strokes in a minute, seldom or never more. It is sometimes the seldom in termittent and unequal. The patient is generally costive from the beginning and even for some time before the disorder comes on, but ne. ver griped. In the advanced stage a Diarrhan and dysentery sometimes occur. a diare how often proves falutary. Homorrhages are very fre = quent from the Nose and anus. There is no difficulty in making Voine which is in a small quantity and appears very high coloured and deps. sits a yellowish brown Sediment. The Blood event the Beginning of the disease appears thin and black. The Serum is yellow, the Crapa: mentum is dispolved; The upper Durface is red and shining below and in the middle black. They have grevious palpitations of the Heart and appear very much fatigued upon the least Motion, The they go = nerally appear well when lying in bed and speak with a strong

voice. They cannot bear even the admission of fresh air tho it is of our advantage; and oftentimes they expire suddenly exposed toit. Of this Iha heard a remarkable Instance of a Sailor who was lying in his hammore talking merrily to his Companions; upon the port stoles being opened to all mit fresh air he expired as suddenly as if he had been stouck with light ening. Fear and Sadnep soon deprep them; joy and hope as soon elevate them. Breathing at last becomes very difficult, they are subject to frequent them. Breathing at last becomes very difficult, they are subject to frequent traintings: they have no Cough. They at last expire without a sigh or a Groan and can scarcely be said to know what it is to die.

as to the proximate Cause of the Seuroy it appears to be a retention and accumulation of putrescent Matters that have been gradually formed in the System and while the Functions are duly performed are carried off by stool, Wrine and the insensible persperation. The Heart may be considered as a per peterum mobile. It recieves the Blood from the Veins which it expells intoh arteries. In this Course there must neceparily be a great lop of the vital Him. Part is carried off by the Urine which contains many arrid corruptible par. ticles: part by stool; but the most considerable part is evacuated by her spiration which is insensible except in the form of Sweat or in Gold were ther. This last Evacuation is constant and uninterrupted while the Bo dy is in an healthy state. Both the Unine and persperation are acres putrescent and of an offensive smell. This is evident in hersons who do not keep their rest clean in Summer. There is also a great quantity exh led by the Lungs. All the Excretions even in health are of an offensive & huta Odou and Quality. This is more remarkable in the sick and parties. larly in the Scorbutio. The Breath is offensive and many other Symptom we have enumerated above. Tho these may be said to be rather the Effer than the bause of the disease, yet the Breath is offensive and the Gumb affected in the very beginning of Sourvy. This putrescency is different from that producing putrid revers be. Putrid Fievers are attended with Paini the Gead intense thirst, frequency of pulse and are generally contagious; whereas the securoy is entirely without these Symptoms and is never con tagious. I say putrid severs are generally contagious; because I shall on another occasion demonstrate that they are not always so. The Causes of putrid disorders appear to be different - Thus some species will produce a plague, some the dysenting, some the putrid some

Throat, and others the Gellow vever. From this we may be allowed to afsert that the pertured Matter causing Sourcey is very different from that of other disorders. All the Aumours of our Body have a constant den dency to putrefaction. The constant supply of aliment tends to correct this as providence has given the greater part of our aliment the power of resisting putriface. tion. The Stomach is furnished with an acid which also tends to resist it. There are various Contrivances to quard against putridity; thus the putrement Mat. ter in Health is evacuated by Stool, Wrine and persperation before they can produce any bad Effects. But if our Food is constantly of an Animal Nature the publicating of the orbust is increased, more especially where the Evacuations from the general Emunctories of the Gody are diminished or obstructed. In the Scurvy, the patient is costine, the Urine is diminished, the persperation is checked and it appears also that the Lungs are affected, hence the Hoxious part of our Humours are retained and assumulated. In fact we constantly carry the bause of Sewroy about us. Dence only bold and lest and living on Animal Tood or Good of a putrescent Nature are wanting to produce it. When there Commistances are present Survey immediately takes place. In Gold Ble. mater where Vegetables are used the Scurvy is prevented, where these are wanting it is soon produced. Savny takes place seldomer in warm than in bold blimates because in the former the Foramina in the Skin are kept open and the putres cent Matter carried out. In Northern Climates the Scurry is produced the Inhabitants live in the same Manner that they do in the Southern. The Inhabitants of the North are afflicted with it onby in the Wenter.

Two Fleets sailing from Europe at the same time, having the same provisions, one stationed on the Coast of North America, the other at the West Indies, the Men in the former will be affected with the source the latter perfectly free from it. In the West Indies, the sailors as it is said lie ving whom the salt Provisions or common Provisions of the Ship perspire Salt in their sweat, in such quantities as to exceed the Bounds of Creatibility, so as to be collected in the Instep, when tasted it was salt and avoid and even destroyed and wore out the leasher of the Shoes of so considerable a quantity is collected in so small part how great must be the disharge over the whole Body, which in those warm blice mater we may almost say depolves in sweet. How different must be

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the Case in Morthern Climates where they do not sweat at all From all this we conclude that the proximate Cause of Scurvy is no other than a Retention and accumulation of putrescent Matter in the Lystem

With regard to the Oceasional and predishosing bauses of the Scurry we may in general Observe that whatever tends to or actually generate putrescency in the System may prove the exciting Cause of the Scurvy. Thus the exciting Causes may be various. The principal are Gold air & such Good as is of a putrescent Nature or is difficult of digestion or af. fords little Nourishment. Unlip some or other of these take place a person in Health will have little to fear. Moisture has been accused of predispos sing to the Survey, but without bold it will never produce this disease the it may produce the putrid Gever and dysentery. That the Veurry is not occasioned by Moisture without bold appears evident from many Con. siderations. The Inhabitants of Ceenice, who may be said to live in Water, scarcely know the Source even by hame. The Inhabitants of the Cold Northern Climates, Russia, Sweeden, Lapland and Norway, where in the Winter all the Lakes and Rivers are frozen up in such a Manner that no Exhalations can arise, are frequently afflicted with the Scurry. This disorder generally attacks them in the Wenter and in the spring they are relieved from it. It appears from the Journal of the Seven Sailors who died of the Sewry in Greenland, which was found after their death, that dwing the Eight Months they were there they had but 10 bloudy to Joggy days. It likewise appears from very accurate Journals kept both by sea and land that the Survey seldom or never makes its appear: ance while the Thermorneter is about To. altho the Sailors live on Salt provisions, but it generally appears when the Thermometer falls below 60 It is not Moisture but bold that produces the disease.

The aliment which contributes most to this disease is animal ton especially such as is salted. There have been many disputes amongst by sicians whether salt or the Meat principally conduced to this disease. Some have accused the Salt alone, while others declare the salt to be perfectly innocent and ascribe the bad Effects solely to the animal nature of the aliment. Those who accuse salt, in support of their Opic nion tell you of the Saplandus who live almost wholly on Animal provided the salt applandus who live almost wholly on Animal hoods.

rood preserved by the Cols of their Climate, who never use date and are veldom or never afflited with this disease. They also apent that the first Winter queber was taken the English Soldiers lived cheifly on Salt meat and great Numbers of them died of the Sourcey. The next Winter they lived upon Meat preserved by the bold without any Salt and continued entirely free from this disease. Neither of these arguments however are conclusive. The Laplanders use besides the arimal Good, the Milk of the Rein Deer which they take your and even place it before the rive and brong it in skins to render it acid. By this they will sufficiently obviate the putred tendency of the aliment. - With regard to the other argument waving the Consideration that the first to inter on account of the war, the Soldiers were whom very heavy duty, exposed to many hardships, franticular by to the bold, by which the perspiration would be checked and a Founda. tion laid for the survey; and that the next Cointer all was peaceable & quiet and the Soldier might consult his ease and health; waving this Consideration Joay, we may observe that after the disease had produced such fatal Consequences every possible Means would be employed to prevent its returning again. There is not a single Instance of Salt alone producing the disease. We must also allow that fresh Meat is not so apt to produce this disease as that which is salted. That Fresh Meat of itself is capable of producing the Sourcy I lately met with two remarkable Instan. ces, the one in a Boy of & years old the other in a young Gentlem an who were both highly scorbutio- Neither of them had eaten Salt Meat, but both were remarkable for being very fond of blesh and not eating legeta. bles Salt and Flesh when combined may perhaps produce Effects which nei ther would produce singly. This appears probable from what happens with some substances used in Medicine, particularly saline ones. Salt renders Flesh harder and more difficult of digastion by which means it is retained longer in the System and becomes more putrio. Salt Fish, Salt Butter & Cheese and indeed animal Substances of all kinds tend to excite Dan my. Salt Butter is generally rancid and putrescent. New Cheese is one of the most insoluble Substances and most difficult of digestion Old Cheese is generally putrement if not already putrio.

The best perservatives against the Source are a regetable diet and Exercise

Exercise. Regetable diet prevents this disorder by obviating the putrid ten dency of our raids. Exercise prevents it by keeping up the perspiration by which the degenerated parts of our blinds are evacuated and not suffe. red to accusulate. When a person is attacked with the Seuroy Exer. cise will be of no Service, and indeed the Solids are so much relaxed that much Exercise cannot be used. The only thing the patient will have tore. by upon for a Cure is a Degetable diet and Negotable aud, as lemon Juice lime Jaine to which always prove effectual unless a person is in the last stage of the disorder. The Mineral acids will be of nower. vice and we may in general observe that no dubstances prove useful in the disorder but those that are liable to under go the acetous Fermen. tation and are convertible in succum et sanguinem. The most power. ful antiseptic peruvian Back utilf will be of no service without a ve. getable diet and when this can be prosured the Use of all Medicines will be superfluous. Unless a person begins to mend from the first day he enters upon the Use of a negetable diet there are no hopes of a recovery, and itis a general Observation that if a person in the Scurvy lives two days after being brought on shore and using vegetables he will get well. When a person is brought so low with this disorder that his Stomart cannot retain and digest Degetables there are no hopes of his Terovery. Of the Efficay of a Regetable diet alone in curing the Seewy there was sometime ago as Instance in the Pennsylvania & Haspital: A Person was admitted for This disorder who the not in the last stage was very much affected with it . He was put upon a Vegetable diet from his first admission. He recovered in a short time without the Use of any other Medicine than the Elixir Vitriol. a few drops of which were ordered him two or the times aday in a little Water. This was given more to satisfy the mind of the patient, than from any Expectations I had of its usefulness. The two bases mentioned above were cured by abstinence from animal to and living upon Degetables without the help of any Medicine. The Tumours were discussed by Bathing them with Dinegar and Sime June. - Of the getables brepos are particularly adapted to this disease They may be taken in such quantities as to afford Nourishment. By their Stimulas they will increase the Secretions and Excretions by Stool

Wrine and Sweat and thus carry of the degenerated Thirds while at the same time they will correct the putrescency of the remaining part by their acescency. For drink Lemonade and weak punch will prove most grateful to the oftom mach will obviate the putric vendency and increase the Evacuations by tool & The different Symptoms which occur are to be treated in the vame manner as if no scurvy was present. The sumors are best directed by bathing them with Lime Juice and Vinegar.

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Not only the recent begetables, but also those that are preserved are excellent preservatives against the Severy. Of this we have had a remark. able Instance not long ago. We may observe that Physicians have in general conduced less to the Improvement of our Knowledge of the Nature & bure of this disorder, than Jeamen such as Lord Anson, Capt Cook le Capt book in his second boy age round the World cavied with him great quantities of Cabbage preserved by Salt, known by the German Name of Sauer Frant. Dwing his whole Cogago which was of 3 years, he lost but & Men two of which died of Consumptions two by accidents & one of a trevier, not the least Symptom of Seurvy appeared among any of his Men. This remarkable healthings he attributes entirely to the Sauer Frant and also to the free Use of Vinegao. This Sauce Krant is the Freen tion of the people in the Northern parts of Surape and is employed during the Winter by all those who inhabit the Countries to the Morthward of Great Britain. Before it is boiled all the salt is carefully washed out and it is rendered slightly acto.

Thave been thus full upon the disease not merely to make your acquainted with its history and Nature, for that you might find in every my Book, but chiefly to shin you the Effects of diet in Medicine. It is how, ever of the utmost Importance for applyoisian to be well acquainted with this disorder. This disorder verves to confirm the Opinion that our offer its may be frimarily affected. How gradual is it in its approach, how certain in its Effects, how fatal in its Consequences.

When the solids are affected we observe that the attack is sudden. In this base the bure is to be performed by Medicines. In the former base the disorder is not to be removed untill an entire bhange is produced in the

the Sounds by diet. It is said that no less than 86,000 Men died of the Sounds in the War before the lass I have taken no Notice of the different Opinions concerning the proximate bause of this disorder, but have confined myself solely to that which appears most rational and at the same time most readily accounts for the Method of bure.

We are in the next place to speak of Drinks.

The general use of drink is to supply Fluid to the System, to promote the Solution and to expede the Evacuation of the aliment out of the Stomes Drink taken in moderate quantities facilitates digestion, dilutes the Chyle, promotes absorption and thus assists Nutrition. When taken in large quantities it huvries the hood out of the Stomach before it is sufficiently digested accelerates its motion thro the Intestines by which means absorption is purented and hence it hinders Nutrition.

Persons who fatten fowls for the Market allow them no drink by which they are fattened in a much shorter time than they otherwise would be all their food being converted into Chyle.

Drink keeps fluid the Lymph by deluting it and hence prevents Ob. structions and stagnations in the Glands and those disorders which arise from these Causes. The same thing happens in the sanguiferous system; hence the whole is kept in a proper degree of Fluidity; Secretion is carried on in a regular Manner; the insensible perspiration is kept up thus the degenerated parts of our Fluids are evacuated before they can be accumulated so as to produce disease. Captain Gook thinks that the Reason why the Scurry did not appear amongst his New was as much from allowing them as much teater as they chose drink as from any other Cause: for during the whole Walfage the Men were not reduced to an allow and of touter.

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These Effects are all produced by simple Water and we may in general observe that all substances are proper for drink in proportion to the Water they contain. Various substances have been added to render it more palatable or for particular purposes, as to render it more now ishing or more healthy. Thus Malt is added to ale and Beer to make them now ishing. Acids are added to the ten to make it quench thirst more effectually. Here let us enquire into the bauses of Thirst. These may in general be referred to the four following Heads:

1.5 Thirst is occasioned by a defect of Fluids in the System, by which the Secretion of the Glands in the Mouth and Fauces is diminished and likewise by the air drying the Mouth in its papage to and from the Lungs.

2nd It is occasioned by solid viscid Good if it be taken in large quan - tities

3 By alkalescent aliment especially if it has acquired any thing of a purture trafactive taint.

At Thirst is occasioned by an increased action of the Meast and Ortenes mine particularly when the heat is so increased acto constitute Lever - In this last base the Thirst is out of all proportion to the heat of the Body and appears to be owing to Constitution of the Gauces and is often intollerable. That the Thirst in this base arises from Construction is evident from its appearing in the Cold Git of an Intermittent where there is no Heat. It is only to be relieved by removing the Construction.

Sam here led to consider the Mise of drinks in General. Physicians have had very different Opinions upon this head. Some enjoin their Patients a rigid abstinence from drink, while others indulge them to the utmost of their Wishes. For my own part I cannot believe that any Inconvenience can arise from allowing our patients to drink plentifully provided he does not take large draughts at once. Large Charachts over load the Stomach, increase the Oppression, augment the sever and thus prove hurtful. Moderate draughts spequently repeated are of considerable Advantage. They increase the exerctions by stool Urino and Sweat and supply Phluid to the System and tend to keep

keep up a gentle perspiration which has a great tendency to moderate the Lever the heat is never so intense when there is a gentle perspiration. When thirst arises from a Construction of the Flauces, which we know to be the Case from the Clamminess of the Flauces and from the patient complaining of into. Construction whilst he is drinking, it is only to be relieved by taking off the Construction. This is to be done by holding a Tamarind or any acid in the Mouth, which by stimulating the ducks will occasion a more copious secretion and excretion of Fluids into the Mouth. In this Case the Cause appear to be chiefly local and is to be removed by local applications.

Tele are in the next place to consider what drinks are best in parties.

In all inflammatory severs in general acidulated drinks are the most proper. To hether this is the base also in bases of topical Inflammate, ons as in pleurisies and peripneumonies is a matter of doubt. There disor ders are generally attended with bough and it is well known that Acids will increase a bough. For this teason I have been detorred from using the in these diseases altho they are in other respects very proper. I have made the Experiment and have always been obliged to desist on account of the bough. If in any bases they can be exhibited without this Effect they will certainly prove usiful. I generally in these bases recommend a Otisan of Barley Water in which some Raisins, Prunes or Signories. Root have been bailed. This affords an agreeable cooling drink and also tends to keep the Body open which is one of the principal curative In:

Dicidulated drinks are highly useful in putrid Trevers, Sysente. Ties, bilious Nomitings and wherever there is a disposition to putrepation. In these bases Rennet Whey in which some bremor Tartaris has been different 3if or Zij to a quart affords a very agreeable and wholesome sind. This I have found to be of great Service and have oftentimes had occasion to use no other Remedy in the Measles. It will prevent the preripneumonial Symptoms the diarrhoa and dysentery which are so often the Consequences of this disorder. It has also this advantage, that it has the appearance of the with the patient and Bystanders and a Physician should always ender

not so proper in Neavous revers. In these there is generally a great Oppression at Stomach arising from debility. Acids tend to increase this Oppression and likewise to produce Flatelencies. On account of this debility we cannot administer the Neutral Mixtures so freely as in other disorders and Saline Substances given with a View of opening the Bowels often occasion Flatulencies and Oppression. In these disorders something moderately stimulating and comfort. able to the Nerves is required. Infusions of Lage and Balm, Wine Whey and in the advanced stage Mustard Whey is attended with happy Effects.

acidulated drinks are very improper for those who are recovering from In termittent Fever During the Gold bit our patient should drink nothing at all or at least as little as possible. During the hot fit and Intermissions. Infu. sions of Chamomile or Centaury are undoubtedly the most proper. But our patient oftentimes requires something more gratiful, and during the hot that we may indulge him with acidulated drinks but at no other time -Every thing that debilitates the Stomach will in Convalescents from Intermittents bring on a Return of the paroxysm. It has been a question much agitated amongst Physicians whether warm or bold drink is most proper in hevers . Some are for rejecting bold Drinks altogether whilst others highly extoll them. In all topical Inflammations and in Inflammatory Levers. in general bold Drinks are improper and should be alto gether abotain ned from But in all Nervous, putrid and remattent Fevers they are much more proper than warm drinks and may be used with Considerable advantages. This is evident from the practice of the Spanish and Italian Physici. and who give their Patients in Remittent Tevers Cold water, and in Jum. mer cool it with Ace and find considerable advantages from this practice. In general we may observe that in all Inflammatory Fevers where the ac. tion of the Heart and arteries is too great bold Drinks are improper; in all revers where the action of the Heart and arteries is too weak and the vis Vita is sunk they are highly useful. In low hervous revers no. thing is more grateful to the patient Man a draught of Gold Water but of this Gratification they are frequently deprived thro' The prejudice & ignorance of the Physician. Cold Drink is in these Cases much pre-Jerable to warm which relaxes the Stomach and System already too much

Drink should be frequently administered in a Newous Fever oftened than they ask for it, for they generally have a delirium and a perfect in sensibility to their own boncerns.

It has been a common bustom in this Country the not so much now as formerly to drink large quantities of punch in Warm Weather. This is a very pernicious practice. The acid weakens the Tone of the Homach, produces Thatulencies and lays the Foundation for the Good in the Extremities in the early period of life and in the Stomach and head in a more advanced Age. The Spirit contributes by slow but as sure steps to the same end, a remarkable Instance of the Offects of Intemperance we have in the West Indians— The New who in general are very intemperate, seldom wrive at any thing like old Age, but are generally carried off in the early wery riod of life. The Women who lead a very temperate life are generally very healthy and oftentimes live to a very great age?

We are next to speak of the use of drink in the Dropsy-This is in general accompanied with very great Thirst from a Constriction of the Tauces, which is not to be relieved by drink and as there is too great a quantity of Water in the System with a dominution of all the Secretion, drink seems to be highly improper. I knew a Surgeon of Eminence in Low dow, who was cured of a dropsy by a rigid abstracce from all kinds drink. His Abdomen was so distended with Water that it actually but the bicative of which he bears to this day. He kept a plumb or a Tamaria constantly in his Mouth and sometimes moistened them with Winvin order to allay the almost intollerable Thirst, but no Third whatever poped his Tongue. It is true, some persons have been relieved of a dropsy by drinking large quantities of Water and bringing on a Corniting and purging and copious discharge of Wrine. This is not owing directly to the Water, but it proves the Cause of the Cover mediately by its Stimulu. It is however a very precarious Remedy and if not attended with those

Effects must certainly prove destructive.

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We are in the next place to consider Condiments.

Condiments are all such Substances as are taken in with own Food to correct any bad tendency it may have or to render it more palateable & agree. able to the Stomach.

The first to be considered are the Stromatics - These are certain acrid Substances which we take in with our rood to render it more palateable In the warmer Climates are Cinnamon Cloves, Nutmegs, Mace Pimento to analogous to these in the northern blimates are the seeds of anise, Carraway, Fennel, Coriander to and all the sweet Herbs. They sti. mulate the Stomach, promote the peristaltic Motion, are antispasmodic taking off Spasm in the alimentary Canal & antiseptic From these qualities they appear to be very proper to accompany Degetable Food and hence the Use of them should be chiefly confined to the warmer Climates of which they are the produce, the Inhabitants of which live mostly on the getables as Lice; Milk, Date to In the Northern Climates where the Inhabitants live chiefly on Animal Good they are very improper, they increase the stimulus of the Good and renders the Fever which always accompanies digestion greater. Unimal Food is of itself sufficiently stime. lating and savoury without their assistance. They ought principally to be avoided in the prime of Life as like all other Stimulants they destroy the Some of the Stomach and lay the foundation for early diseases. Persons who use those Substances freely in early life when old agreomes on are troubled with relatulencies, Indigestion, Costiveres; hence Ole: structions in the Liver and other Viscera and the whole train of disor. ders consequent whom these are produced. If they are ever proper it is only in Old Age when the torpid State of the Stornach requires something ste. mulating to excite it into action _ The Condinients most proper to accompany Animal Food are the different kinds of brefoes, Radish Horse Radish, Mustard and all plants of this kind. They stimulate the Stomach, are deuretic and diaphoretic and thus carry off the degenerated parts of the Fluids. The same may be saw of Leks, Oneons

Onions and Garlie which also very properly accompany Animal Food.

The Condiments more generally employed are Satt, Vinegar and

Sugar.

Salt is the Condernent most universally employed, it is the most so pid and least apt to pall. It has been said to be antiseptie; but this seem to be contradicted by our using it with Vegetables, and carrier orous ani. mals are poisoned by it whereas the graminivorous are very fond of it and surely it cannot act here by any antiseptie quality. Salt is part. cularly properto accompany a Vegetable diet, it stimulates the Hornach assists digestion, excites Appetite and promotes the Secretion of Salivas the gastrie Liquor - animal Good preserved with Salt is rendered hard and form and of difficult digestion and thus predisposes to Scurvy and other putria disorders. Salt Meat is very proper for persons troubled with Worms, particularly the Jape Worm, for when Salt is applied to Worms out of the Body it is found to distray them. Sheep are sub. ject to a disorder called the Rot which is owing to Worms in the Liver Salt is found to cure this disorder and if Salt be given to the Sheep from time to time they will never be afflicted with this disorder for this Reason the Farmers, in those Countries, where Salt is plenty, put large pieces of Rock Salt into the Sheep rolds that the Sheep maylish it whenever they have a mind. Whether this first gave the Idea to By suians of prescribing salt for the bure of Worms or not is immateri. al. Certain it is that much benefit has been recieved from its each. bition. In Rosen lately a first Physician to the King of Sweeden always directed his Patients to live for two or three telecks whom Salt Meat before they took any Medicines for the Worms, He also di rected them to eat a piece of Salt Meat or Satt Fish Herring for Instance for Supper and to drink nothing for some time after it. By these Means the Worms were not only deprived of them proper Nowsishment but were also exceedingly distressed by the Salt and afterwards yielded more readily to the Medicines that were administered - A very good domestic Medicine for

Worms is a little Salt mixed with Molafses and taken every morning for two or three Weeks. This will seldom fail to effect a bure. Salt has been much recommended of late as a specific in spitting of Blood also in vomiting of Blood. I have given it a fair Trial in four bases. The dose is two or three Spoonfuls a day. It may be taken of the dry which is the best Method or disolved in Water In one base In which I tried it, it had no Effect. In three others the Complaint was relieved but other Medicines were combined with the Salt which might have had as great a share in producing Relief as the Salt. In the two following bases it produced very good Effects.

I was called upon to visit a Gentleman then about 32 years of age whom I found spitting up clear Blood from his Lungs. He had never been troubled with this Complaint before and was free from pain or any uneasy Sensation in the Breast and his pulse was neither hard nor full. He knew not what to attribute his dis. order to unless that some days before he had crossed a Greek which proved to be deeper than he expected so that his Forse was obliged to swim and he got wet to his middle. I ordered him to lose about 12 Ounces of Blood and to take two Soruples of Glaubers Salt every two hours. The Medicine opened his Bowels gently and howas relieved considerably of the spitting of Blood. I advised him to conte. nue the Medicine and to use Barley Water for common Drink and to live very low. But the next day in the afternoon the Shitting of Blood returned as bad as before, altho he had taken the Medicine regularly and had strictly complied with the Re. gimen I had prescribed. Ithin ordered him to los six Ounces more of Blood and to take Zij of powdered Satt every 2 hours. By this bourse he in a very little time recovered of his Complaint and has never had a leturn of it to this day.

Some time after I was called to visit a Lady 50 years of age of a delicate habit of Body. The had been troubled all the Win.

Winter and Spring with what is commonly called a Gold with a troublesome bough, uneasiness in the Breast and low Frever The day I saw her she had been seized with a spitting of pure Blood from her Lungs. As she was rather Weak and never bor Bleeding well I ordered her to love only eight Ounces of Blood and to take Ifs of Glaubers Salts every two hours. as this produce no Relief and the base was now attended with faintings truly alarming. I ordered a Blister to be applied to the upper part of each Arm, and a half or a whole Teaspoonful of common Salt to be taken every two howrs. as this disagreed with her Homach very much, I ordered a strong Solution of the Salt in Water to be made, of which she was to take as much at a time and repeat do often as her Stomach would bear. This still continued to nauseate her Stomach as indeed every thing did which she took. She was after some relieved of her Complaint and has had no Teturn of it. She used the Solution for several Weeks after she was relieved and continued under a very strict Regimen for several Months. I have since had recoursets Salt in several other bases and always with evidently favourable

Unitegar gives a grateful saste to our Aliment, stimulates the stamulates the smark and excites the appetite. It is a very proper Condiment for animal stood, as it resists the sendency which that has to putition. It is also very useful with Degetables, as it determines to the as tous Fermentation and thereby prevents the bad Effects of the Di: nows, for during this last, as we have already said the noxious gas is generated. Vinegar however to produce these Effects should be pure and unswixed. When it contains a portion of unfermented and Saccharine Matters, it is liable to undergo the Vinous Go. mentation and to produce all the bad Effects of recent Vegetably, Sugar is one of the chief Ingredients and indeed the principle of Mourishment

nowishment is Regetable aliment. I am not however now to consi: der its nutritious qualities, but am to speak of it as a Condiment. It can not be used for any length of time and in large quantities as it will hall the Appetite. It is liable to undergo the Vinous and actous Fermentation and hence is capable of producing all the bad effects of recent accescent be-getables. It is powerfully and hence is very proper Condiment for ani: mal Food, with which it ought to be used in preference to Common Salt. Meat preserved by Sugar is not rendered so hard as that preserved by Salt and hence is more soluble and easy of digestion. This we may lobserve very readily in Bacon. Some people have their Bacon much more soft and juicy than others which entirely is owing to the mode of curing it. Those who use Sugar along with their pickle will have their Balon much nicer, than those who use Salt alone. It is likewise observed that the Aogs in the West Indies which live on bane have their Meat much more tender than those which live on other Good. It is customary among the people in the Morthern part of Europe to use sweet sauces with their Meat especially in the Winter. It is also the practice in some parts of Aus England to use Molasses with their Meat chiefly in Winter, for in the Summer it is neither useful nor nesessary? This is a very judicious practice. As Sugar is liable to undergo a vinous and acetous Fermentation it is prejudicial to those who are troubled with Hatulencies Indegestion I a prevailing acid in their Stomach as it increases this ared. It is very useful and proper in all bases of Rigidity and whenever there is a dispos sition to putrescency. Sugar has been accused of causing Disorders of the Teeth, this it was thought to do by sticking to themb becoming ail and thus corroding them. But how so soluble a Substance as Sugar can stick to the Seeth and corrode them, especially if we consider that it must ferment before it can become Acid is to me perfectly unintelligible. How can an Ocid corrode the Teeth when we see that whole Mations live whow Raisins that are much more accessent than Sugar without having their Teeth affected more than those who never taste Sweets. It is probable that hot

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reas, hot boffee and the free use of Spirituous Liquors contribute much more to injure the Teeth than Sugar. These relax the Gums very much and may thus cause Disorders of the reth. There are two bacises to which I placed think we may justly accuse the Climate; there is no place where the Dief. situdes of Steat and bold are greater than here, honce we are subject to Cheurnatic Affections of the Stead and Face which generally affect the out of the Indigestions and other disorders of the Stomach which we know affect the Indigestions and other disorders of the Stomach which we know affect the Mouth and Teeth. Foreigners Observe that the Women in this bounty in general have very bad veeth.

Sugar also has been accused of producing and increasing Worms in the Body. It has however quite a different sendency, for when applied to a Worm out of the Body it will instantly kill him. Whilst the Worm remay at rest in the Intestines, the patient is easy, but when he crawls along the smooth Membrane of these parts a great pain and oftentimes Con. vulsions are produced. This often happens when the patient has eaten a quantity of Sugar and is commonly as oribed to the Worms moving towards the Homach through eagerness to get at its favourite Good But we find when Milk the proper Moulishment of Worms is taken no such Effect follows: and we often find Convulsions are produced when very efficacions Medicines are taken to destroy Worms. We must therefore conclude that these Effects as owing to the Worm moving from the Stomach by that principle of Self preservation which teaches him to avoid the troad which would prove his de struction as it is to him a poison. It is highly probable that the less frequent appearance of Worms and the Diseases arising from this Cause is owing to the more general Use of Sugar. Since the Use of Sugar has become more com. more many disorders which formerly were very frequent seldom or neveral. pear. a great Change has of late taken place with Negard to Diseases: in the last fentury warm people lived chiefly on Meat and strong Food and from their manner of Life were much exposed to Inflammatory and putted Disorders

Disorders, and their diseases were in general of this kind. Since sea and Coffee with Sugar have been generally used those disorders have been greatly diminished and the whole Train of Nervous Disorders have made their ap. pearance which very rarely appeared among our ancestors. If we consider that nervous Disorders are not so fatal as the Inflamatory and putrid and are more readily cured we will have great reason to be satisfied with the change We are also relieved of that loath some disease the Seprosy which frequently of feeted our Ancestors who were obliged to build Sazarettoes or Hospitals to confine the Sepers and cut them of from society. If we likewise consider that our Intellectual Faculties are as much improved we will have still more reason to be satisfied with the Change of diet That animal Food dulls the Facul. ties artful Jamesters bear Witness: I have heard of a Gentleman who realized a princely Estate by his Skill in Chances. Whenever he expected to be deeply on. gaged in play in the Evening, he abstained from Dinner and confined him. self to his room the whole Day meditating upon and calculating the different Chances and taking for Nourishment only Jea, Coffee or very thin Broth. The finer the Sugar the less subject to Fermentation; the Coarse Sugar is more fermentable hence becomes more acid and laxative. Fence the bad Effects of Sugar are more conspicuous in this coarse than in the fine. Many how. ever have been deterred from using fine Sugar from the Lime which is employ. ed in clarifying it, but we may assure ourselves that not the least particle of Lime enters into the Composition of the Sugar. Indeed quickline is employed for the Coarse as well as the fine Sugar. It is not so entirely ocherated from the former as from the latter. The fine Sugar should be preferred to the boarse on all accounts. The fine possesses all the good qualities of the Sugar with none of the bad. The Vegetables preserved with sugar have the same qualities as the Sugar itself and no others except the acrid Substances as Jinger, Elecam: pane which retain some of their original qualities. Ingeneral only insipid Substances or such as are rendered so by boiling are prepared in this way. Vinegar preserves have the same qualities with Vinegar itself. They are ren. dered very difficult of Digestion and are therefore highly improper for persons of a weak a weak Stomash. Dr. badogan inveighs very much against the Use of them, but the they may be very hurtful in the Disorder he treats of the Gout, and in all bases of a Weak Stomach they are very proper bond inent to accom. hany Animal Food where a person is in Health.

We have now finished the Consideration of Megetable Food and

are to proceed to speak of Animal Good.

Animal Food differs from Degetable in many essential points 1th as it is already of an animal Mature it requires only Solution and Mix ture to be converted into our Fluids, whereas the Vegetable stands in Merd al. so of assimilation. 20 It is more easy of digestion. 30 It is more nourishing. 4th It disposes to the Inflammatory and putrid Diathesis. The Consequence of a too free Use of animal Tood are all kinds of putul severs, Scurvy and Dysenterylo. animal Food is more stimulating than Regetable. animal Good also gives a richer and denser Blood. On then accounts it should be avoided in all Inflammatory trevers, apopleases and by persons who are subject to Demorrhages particularly from the Lungo young people particularly Children should use animal Food sparingly and live principally upon a Vegetable diet. animal Good like every other Stime lant proves injurious by wearing out the Sone of the Stomach. Persons like wise who are chiefly employed in mental Exercises ought to live more upon Olegetable than animal Good. The Solubility of animal Tood differs as cording to the age of the animal. The Flesh of full grown Animals is more tender and soluble than that of young animals; Thus Beef is more soluble than Weal, Mutton than Lamb. By full grown animals I mean those in the most perfect that when an animal has arrived at its feel with size both in height and Circumference not when grown Old for then the muscular Fibres become rigid and tendinous and the Blesh of Old animals is therefore very insoluble.

son and all kinds of Game are of easy digestion; animals as they become obtaine more alkalescent and on this account the flesh of young animals is

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less soluble than that of full grown. Solubility also differs according to Discidity The more visied and glutinous Food is, the more difficult is it of Solution; of this Truth Twitte is an Instance. This is one of the most visual Substances and w. scarcely be conquered by our digestive Organs, were it not for the method of dressing it. It is mixed with great quantities of hot spices which stimulate the Stomach and existe it into action by which it is enabled to digest this Good. The Flesh of young animals is more glutinous than that of the full grown In young animals the Glands are larger and more numerous than in the Old& their Bodies abound more with menous and glutinous Fluids. In the young A. pimals the Muscular Fibres are more compact with little or no bellular Mem. brane interspersed between them, and on this account also young Animals are less soluble than the Older in which the Muscular Fibres are seperated by bel. lular Membrane and Fat. On this account also the lean of fat Meat is very easy of Digestion whilst the Leaw of poor Meat is of the most difficult Digesti. on. Meat is more perspirable according to greater or less alkalisuncy It is also perspirable according to Discidity. That meat which is most glutinous is least perspirable. Hence Mutton and Venison which are most alkalescent are most perspirable; Oysters and Fish from their Viscidity and little alkalescency least. From these qualities we see that Cysters and Fish are very difficult of Di. gestion. They overload the Stomach and increase the Lever that attends Degestion They remainlonger in the System and hence may prove very mourishing but then they should be used only by such persons as are capable of digesting them, such as work hard or use a great deal of Exercise. Persons living near the Sea Side and subsisting on Cysters and Frish, are very robust. They are liable to be of: fected with Eruptions on the Skin, Survey Dysentery, and other Disorders of a putried Tendency. We have by Mature an aversion to living for any length of Time on Animal Food or Fish of any kind. This we observe in the Salmon Fishery The Sowants employed in it make an agreement with their Masters that they are not to live on Fish more than two days in the Weeks, this the Salmon is one of the most delicious and savoury of hished.

Solubility differs likewise according to the Manner in which the Meat is drefsed. Meat by much boiling or roasting is rendered firmer and lefs

alkalescent and consequently less soluble. That Meat by boiling is rendered less alkalescent is evident from the practice in the West Indies and even in this boundary. In Summer when the Meat has a Tendency to become putrid we parket it by which it will keep sweet a much longer time than it otherwise would alm the West Indies this practice is called jerking.

The next Subject we are to treat of is Milk; this is of an intermediate Mature between animals and Negetables. As it is of so much bonsequent too in Medicine and diet it deserves a particular attention. The shall first treat of its Secretion.

In all viviparous Animals both male and female there are certain glandular Substances called Mammo or Breasts by which the Milk is se. creted. These are the softest and least resisting of any Glands in the Body! They are placed outside of the Kibs free from all Compression being cover red only with a smooth soft skin. These differ from all the other Glands in this Respect that the latter secrete their different Thuids at all times while the former secrete only at a particular time. The cause of their secreting on by at particular times has afforded great Matter for Dispute among thy sicions. It appears plainly that there is a great consent between the Break and Atterus. Thus the Breasts swell and become painful at the time of the Menstrual Flux. This Consent must be owing to a Communication of Blood Vefsels, particularly to an anastomosis between the Epigastrica. teries and those which go to the Mammo. Bartholine tells of a youth afflited with a Hernia whose near pap always began to swell when the Trust which supported the Supture was tightened by which the Epigas. tric artery was compressed. During Gestation when the distended Atteries compresses the Epigastrie Arteries the Breasts swell; after Birth when the Epigastice Arteries are freed from Compression the Swelling of the Breat recede from the new Determination that takes place. They likewise swell remarkably after Birth whon the befration of the Lochia when the Fluid are determined from the Atterns to the Breasts. From this new Determi. nation it is that we may understand why in Infants a few Days after

Milk consists of three parts: 1th Dily part or bream, this in a great measure resembles the Regetable expressed Oils and seems to be derived from them 2nd Coagulable part which is of an animal Mature and greatly resembles the White of Eggs. 3 de Water in which some Saline Matters are dispolved: these three Substances may be procured seperate in the Form of Butter Cheese and Whey,

Milk has commonly been supposed to be taken up into the Sac. teals without suffering any Decomposition, this Notion is erroneous. It is de composed

composed in the Stomack, coagulated, fermented and afterwards taken up by the Laiteals and mixed with the Blood. as Milk is of an intermediate Thatwo between animals and Degetables it is particularly calculated for the Mourish. ment of our Body. It is particularly proper for Children and we find it is fur nished for them by Nature as soon as they are born. For persons in an Hete hever it is peculiarly adapted, Milk has the good Qualities both of animal and Degetable Food and is devoid of many of the Inconveniences that attend either Thus it is not subject to the vinous Fermentation and hence it is not liablets produce Flatulencies to which arise from Vegetables. It is hurtful only to those who have a strong acid in their Stomach, for in these the Coaquelum or Curd is for med so hard as to be incapable of Digestion. Milk may also prove hursful to persons recovering from Intermittents, as it tends to cause refrigeration by its acescency.

Ases, Mares and Auman Milk are not so acescent nor so easily coagular. ble as the Milk of the low, the goat and the Sheep and form a more soluble Coaquelum. The former do not contain so much Oil and Coaquelable part and are very proper for persons without Fever, whilst the latter from their acesumy are much better calculated for persons with rever. These last may be coaquilated with asids and the different Coaquela, and heme are not so proper in weak Stomachs. The latter contain nearly the same quantity of bream, boaquelable part and whey, except that of the Sheep which contains less Whey and less Coaquilum than the others. Auman and apres Milk have been preferred to the others in some diseases. It may not be amiss here to enquire into the Cause of the preference and the Loundation of it. alses Milk is not so aus. cent as bows Hilk and cannot be coagulated by the various Coagula or Ren. nets. By rest or Stagnation it seperates spontaneously into its several parts The Coagulable part falls to the Bottom, the bream rises to the Top and the Serum occupies the middle part. It contains a large quantity of Whey with we. ry little bream or Cheese. It is even said that Butter cannot be obtained from Apres Milk. Mare's Milk is very similar to Apres but som. tains still less oil. Auman Milk is not coagulated by Rennets usually employed for coagulating Melk. Even the strongest acids will not coagulate it neither can this Effect be produced by boiling it. But if it is placed at rest in a Heat of 960 this Separation will take place of itself, as appears when

Infants

Imfants throw up their Milk by Vorniting. From all this we see that the dis tinction is founded in Reason When the Stornach is so weak as to reject fows Milk, it will sometimes bear afses and Human Milk and we alcordingly have Instances of Persons who were matched from the Jaws of Death by such ing a healthy Nurse. Suman Milh differency much in different allomen In some it is white and thick in others deleted and thin with very little bream The Milk of Murses is very little affected with their Food much less than that of Ruminating animals or those who chew the bud It is doubtful whether purgatives given to the Murse will affect the Child. Murses labouring under Diseases will sometimes give very good Milks. There are Instances of Neurses who were affected with the Venereal Disease while the Children who sucked them continued free from it. Two Instances I have known of Murses having taken Mercury until their Mouths were some while the Children were not in the least affected; nor did the Milk change Silver black nor Gold white as we know the perspiration of Persons taking Mercury will do. This strongly confirms an Opinion I formerly advanced that the State of the secreted Thuis depends more upon the secretory Organs than upon the State of the Fluids. from which they are secreted. The passions of the Mind have a considera ble Effect upon the Milk and there are Instances of a sudden bit of Passion producing such a Change in the Milk that the Children sucking the Murse have been thrown into violent bonoulsions and death has ensued when the milk has not been rejected by Comiting. In these bases the sudden Change produced in the Milh must be owing to an alteration made in the Breasts and Organs of akcretion. This Change is not confined to the Breasts or other Organs of Secretion; it also occurs in the Organs of Digestion. Thus a sud. Len Insult or unexpected bad vidings affect Digestion and will suddenly render every thing contained in the Stomach vitiated and corrupted. We are must to treat of the part from which Milk is secreted.

There have been very different Opinions on this head. Some afsert that Milk is severed from the Blood, while others think that it is entirely derived is severed from the Blood, while others think that it is entirely derived from the Chyle. It is very difficult to determine this point as we do not from the Chyle. It is very difficult to determine this point as we do not know the true analysis of the Chyle mor how much enters the Blood in know the true analysis of the Chyle mor how much enters the Blood in a given Time, nor how long it is before it is converted into Blood. The

advocates for this latter Opinion afsert that it is very improbable that Milk is secreted from the Blood in such large quartities every Day There being In. stances of some Women who have given six quarts of Milk in 24 hours and some bows give 24 quarts in that time for that it should be derived from the Blood immediately. They likewise show that Milk and Blood are of a very different Mature: Milk is resolved into Coaquelable part, bream and Why Milh is acescent and Blood is putrescent. There seems to be some Truth in the latter argument, the former is not at all conclusive because as I have said above we know not the exact Quantity of Chyle that entered the Blood in a given Simo nor how long it is before it is converted into Blood. This Opinion of Milk being derived immediately from Chyle is farther confirmed from Dr. young's Experi. ment on a Bitch whose Milk he found to be alkalevent when he fed her upon animal Food and acescent when she lived upon begetables. Milk as has been abready said is particularly adapted for Nourishment being of an intermediate Nature between animal and Vegetable Substances possessing the good qualities of both and in a great eleasure exempt from the Inconveniences of either. By boiling it is rendered less account and consequently less laxative. It should be use when new rather than when it has been drawn a long sime as that has had time to seperate. The Milk of ruminating animals is of more difficult Digs. tion than Human, afses or Mare's Milk. It contains more Oil, is more acescent and partakes of the Nature of Degetables. It is therefore very service. able in all bases of putrid and inflammatory Diathesis. In these bases Butter. milk seems to be rather better and may be used with propriety. This is excellently calculated to produce a Change in the State of this Aumours and will often be serviceable where pure Milk would be improper. Milk is very excellent for persons recovering from Inflammatory Disorders. Milk is very serviceable in Metie Fevers and Consumptions. In these Cases Auman and afoes Milk have been preferred. Persons in these bases should not be restrained to any cer. tain quantity but should take as much as the stomach will bear. Riverlus and Hoffman give us bases of persons rescued from Death by this practice. Runnet Whey is likewise very excellent in these Complaints and in internal Ulurations of all kinds. This will often be retained on the Stomach when Milk itself will be rejected. a Milk Diet has also been recommended in the Gout, as

tinous und less acescent and consequently better adapted to these Diseases To render the Milk more glutinous various substances have been added . A Woman near Germantown acquired great Fame for a supposed specific which she had for the Thux. Upon enquiring into the Statter I found her secret consisted in boi. ling a Sheet or two of White paper in Milk. another Domestic Medicine is 1/4 of a pound of Mutton Suct boiled in a pint of Milk and drank at once at Bed time and once more only repeated. This I have seen used with singularly good Effects. all then various prepartions art by their demulsent and Oily qua. lity defending the Intestines and supplying the place of the natural Mucus. Marsh Mallow Root, Comphrey Root, Sago, or Salep or if the Composition is to be more medical Gum Tragasanth or Gum arabis boiledin Milk will produce egud by good effects. Milk is particularly calculated for producing a Change in the Du. mours when we wish to exterpate a Constitutional Disease in which both Fluids & Solids are affected. Milk has likewise been recommended in Camerous and Scrophulous Disorders. In these there is generally a vitiated State of the Humany and a Change in them I have already told you is only to be brought about gra. dually and more by Diet than any thing. Milk is better adapted for this hun. pose than any other substance we can employ. Sylvations tells us he relieved a person of a Cancerous Sumour in the neck of the Uterus which had been there a considerable Time by a Milh Diet alone. When a Cancer is ulcerated a Sanious, avrid Matter is discharged which causes great pain to the patient This Discharge is increased by every thing that is stimulating and is rendued much milder by the Use of a Milh Diet. Milk is also of the extmost utility in Unereal Complaints Foffman tells us of a Gentleman who had been for a long time afflited with the Venereal Disease and was at last cured by a Milk Diet without any other Ramedy. The late Dr. Monro likewise gives us the bases of two young Gentlemen who were afflicted with Veneral Ulers for which they had taken a Variety of Medicines and had been repeatedly salivated; the Ul. cers however continued to increase both in Breadth and Defoth. The Doctor at length advised them to go into the bountry and live solely whom a Milk Diet. They followed his advise and in about six Weeks time were perfectly end. From hence we see that Melk deserves the most important Consideration It is furnished by Nature for all young Animals and is particularly fitted for thin nowishment. It claims the first place in a dectate Regimen.

We have now finished the Consideration of the Neutrientia. We shall here just briefly recapitulate what we have said in the preceding Lectures. We began with observing that all our aliment was either of an animal or Degetable Mature and The asserted that Man was destind to live whon both. This we proved from the Structure of his Teeth and Intestines and found it strongly confirmed by the ad. vantages of a mixed Diet and the Disadvantages of either alone. We in the next place considered Digestion, in which we found the Saliva, Liquor Jastrius, Bile and pancreatic Juice were of considerable Service. We then took Notice of some Hy. potheses concerning this process and found that some ascribed it to a Solvent whilst others supposed it to be owing to Mechanical Force, who considering the Stomach as a Muscular Organ and computing the Force of the lefser Muscles from thence supposed the Torce of the Stomach to be more than sufficient to grind any aliment recieved into it. M. Reaumeur's Experiments showed us that neither of these were entirely right, the perhaps neither were entirely wrong? We made it appear that Digestion is at least completed in the human Homach by rementation, of which there are three kinds, Vinous, aretous and putrefactive which are prevented from going too far by the Signors above mentioned but principally by the Bile which we found acted by its Bitterness and that this was neither alka. lescent nor putrescent. We found that Degetables were nowrishing in proportion to the quantity of Sugar and Oil that they contained, and they are more easy of Digestion and less nomious in proportion as these parts are more intimately blen ded; hence Grain in which these are intimately united is very wholesome while Nuts in which there are not properly united are difficult of Digestion and are apt to prove flatulent. We also observed that a Vegetable Diet was improper for per sons troubled with Hatulencies, acidity, Indigestion and Costiveness arising from this Cause and for such persons as are troubled with the Hysteric and Hypochon. drive Diseases: that it produced the Nearthourn, Colie, Diarchea land Cho. lera Morbus; that it is very useful wherever there is an inflammatory or putus Diathesis, that in these last bases animal Good was highly improper but that it is useful wherever there is a prevailing acid. That assimal Food was more soluble than Wegetable, and that it was more soluble in proportion to its alkalescency and smaller degree of Viscority. We also found that Meat which was overdone was les soluble than that which was rare done. The' some persons have lately afserted that Meat was more soluble in proportion as it was done. This at least

appeared to be the base in the person on whom Dr Hevens made his Experiments which are enumerated above. We also treated of Condiments & found that the aromatics were very improper to accompany animal From but were very useful with Degetables and therefore they grow in Warm Climates; that the breskind and alliais were the best for animal Good; that Salt was the most grateful bondiment, that it excited appetite, when pure resisted putrefaction that Sugar was antiseptes, nourishing and destroyed Worms, that Vinegar resis. ted putrescency corrected the Inflammatory Diathesis and assisted Digestion. We also spoke of Drinks and found that they were of Use to supply Fluid to the fyp. tem, facilitate Digestion, that when taken in moderate quantities they afsisted Digestion and conduced to Nutrition, but when taken in large Quantities that he trition was hindered.

We also observed that as livelines of Imagination Delicary of Teeling quickness of apprehension, Strength of Judgement the more remarkably accom. panied a Weak than a Robert habit of Body, Studious persons (and those who prefer strength of Hind to that of the Body should live principally whow a Negetable Diet -

The next Class we are to consider are

Adstringentia

By this serm we mean such Substances as have the power of approximating the Fibres of the Body and increasing their Cohesion. They will exert their Effects not only on the living Body but also after Death: Thus Oak Bark is a very powerful astringent and is employed in January to render the Rides of animals dense strong and firm. This property is not peculiar to the Oak Bark but is common to all the astringents. The Number of Astringents is very great. They are obtained from the Mineral and Degetables Kingdoms and are discoverable by the following Signs: Upon tasting them the parts are very much constricted and corrugated; the palate feels a disagreeable Roughness and the Lips become palled. The le getable astringents likewise strike a black bolour or form Ink whom being mis. ed with any of the Preparations of Iron.

Hoffman speaking of the Use of Astringents says, if the adminis.

tration

tration of any Medicine requires great Caution that of Astringents certainly does for when given unseasonably they produce the worst bonsequences. Thus by the improper Use of astringents we find Nectio Fevers, Cachexies, Edematous Swellings, Colies and Spasmodie Offictions of different kinds produced. Synonymous to adstringentia are the Serms (Roborantia, Constringentia, Consolidantia, Styptica with regard to the Solids; with regard to the Fluids are the Terms Coagillantia, Condensantia Incrassantia le. With regard to the Operation of astringents, some suppose they act wholly on the simple vibres, whilst others imagine they act on the Nerves of the stomach and by means of them extend their action over the whole System. Those who favour the first Opinion supposed that the astringent is taken up into the Blood and by means of the Circulation conveyed to the different parts of the Body when it will exert its Effects. But if we consider that if this were the base it would take some time before the Medicine could produce its Effects in the different parts, whereas when As tringents are given internally for checking Famorrhages of distant parts e.g. of the theres we find the Effect produced almost as soon as the Medicine has arrived at the Stomach. This single Consideration is sufficient to show us that this Opinion is not well founded. There are however other Arguments which tend to show this. Thus if the astringent were distributed thro the whole Major Blood a very little of it is arrive at a particular part and therefore to produce any considerable Effects it would be necessary to give it in large quantities: We find on the contrary that small Doses will in a short time produce very considerable Effects. also if some particular as trin. gents were without undergoing any Change mixed with the Blood they would cause a Coagulation of the whole Mass which we know would inevitably occasion the Death of the Animal: from these arguments we find that the astringents cannot exect their effects by means of the Cerculation and hence are led to adopt the other Opinion viz that distringents operate solely whom the moving Fibres by means of the news of the Stomach. It is true astringents will act whon the dead Body but then they affect only the ribres with which they come immediately in Contact. Whereas in the living Body they extend their Effects over the whole System: this they un. doubtedly do by acting upon the Nervous System. Astringents are employed externally and internally to check Homorrhages. with regard to the internal exhibition of Astringents in Formorrhages it will be necessary to attend to the following Rules . If the Hamorrhage arises from

the Suppression of some natural Evacuation even in some unusual place it ought not to be suppressed untill the natural Evacuation is restored: Thus if from the Suppression of the Menses an Olcer is formed in any part of the Body from which Obload issues periodically it is not to be suppressed untill see have brought on a flow of the Menses. After the Aumours have been brought into their proper Channel small doses of weak astringents may be given.

any Vemorrhage become habitual indeed any unusual Vemorrhage whatever ought not oud dealy to be suppressed. We should first use Bleeding and the antipho gistic Regimen in order to give a new Determination to the Aumours. If these fail boul Doses of weak Astringents may be employed. In bases of Temorrhage there is gene. rally a relaxed State of the Intestines producing Costiveness. This is aft to be inere sed by the Use of astringents, we should therefore combine gentle Saxatives with our Astringents. When a Hemorrhage is so violent as to threaten the Life of the pa. tient we should have immediate Accourse to Astringents without paying anyst tention to the Inconveniencies arising from their Exhibition. In this Case we Should use the strongest Frosile Astringents. If the patient is plethoric and of a robustite bit of Body Bleeding will be very necessary as Hemorrhages in such persons are gen. rally attended with febrile Symptoms. If this is not the base and the Hemorrhages owing to Relaxation as is often the base after amputations Bleeding will only increased Relaxation and render the Gemorrhage greater. In this base we should trust to aster gents alone. D. Monro's Observations on this head are very good. It may be of Sina to you to know that recent Hemorrhages may be suppressed more safely than those which have continued for a long time. No Demorrhage ought to be entirely suppresed untill the Cause producing it is removed.

In Homoptoe the Use of astringents is doubtful. If the Discharge is superpressed suddenly the Blood is accumulated in the Sungs and a Suppuration and phthisis Pulmonalis is often produced. astringents should not be given during the paroxypm, but may be employed after it in small doses. Britisal Hemorrhages should not be suddenly stopped unless they threaten the life of the Patient which is seldom the Case.

astringents are likewise used externally for the checking of Hemorrha.

ges. Here they may act in two Ways, by contracting the Solids or by coagulates, the Fluids with which they immediately come in Contact. They are however of the Fluids with which they immediately come in Contact. They are however of no great Service in this way. If only small refeels are injured Dry Sint and prepur

Signature will more effectually stop the Hemorrhage. If a large Repel is wounded a Ligature will check it sooned and will be much safer. Astringents are also employed in the love of Ulcers. It has commonly been supposed that there were Medicines which would supply wesh when it was lost hence called Sarcotica. This we now know to have no Goundation. The only Medicines which tend to produce a bure of Ulcers are those which conduce to the Formation of pus. Ulcers often head with difficulty from a lawity of the parts. Astringents by increasing the strength and Clastility of the Thirtees will tend to bring on that degree of Inflammation which is necessary for the Formation of good pus. The Use of Peruwan Bark in promoting Supplusa, tion is too well known to be doubted. It certainly acts by its astringent quality and other astringents may have the same Effects.

Astringents are also employed in Jangrenes. They not only prevent futrescency but also cure it after that aken place it has also been proposed to inject askingents into the abdomen to cure Dropsies. The Water may all be drawn of by the Ope ration of the Baracentesis, and it was thought that astringents ought them to be injected into the abdomen and by strengthening the Parts hrevent a Return of the Dijected. Those practice is now deservedly rejected. Thom Dispections it appears that the most frequent lause of Dropsy are Obstructions of the Liver and other Discerce and most frequent lause of Dropsy are Obstructions of the Liver and other Discerce and it cannot be cured unless the Obstructions. If Dropsies were in general oring to a Lax to increase than remove these Obstructions. If Dropsies were in general oring to a Lax to increase than remove these Obstructions. If Dropsies were in general oring to a Lax to increase than remove these Obstructions. If Dropsies were in general oring to a Lax to increase than remove these Obstructions and the base it would be in vain to strugth the Whole System. Astringents are hurtful in the Aydrops pectoris and all encysted Whole System. Astringents are hurtful in the Aydrops pectoris and all encysted Woods habit of Body.

Astringents are likewise employed in Diarrhads and Dysenteries. These two Disorders are generally confounded. They are however different, tho it is difficult to distinguish them as there is scarcely one symptom of either which does not at Simes accompany the other. Diarrhad Itold you when speaking of Fruits aries from Refrigeration. In it the Stools are liquid, frequent and of a natural bolon was from Refrigeration with Gripings and Borbory aniv. A Dysentey is accasioned by it is also accompanish with Gripings and Borbory aniv. A Dysentey is accasioned by puttid Exhalations and this is perhaps the principal thing which well enable us

to disvirinate between the two Diseases. In this the Stools are frequent but not so copious as in a Diarrhoa and are sliny and Enothy accompanied with a Venesmus. A Dysentery according to the best Authors is generally uttended with a Fever As. tringents should not be given in the Dysentery untill the prima Die are first evacuated. For this purpose we should employ such Substances as have some De gree of Astriction. Phubarb and Specacuanha are generally employed. After morbid Matter has been evacuated a Discharge is frequently kept up from Sarity In this base we may safely use Astringents and the peruvian Bark is one of the best we can employ.

Astringents have been likewise recommended in Evacuations of Mucus as the Gonorthan and Theor albus. In the first stage of a Gonorthan where there is an Andor Urina, Inflammation of the Wrethra, Chorden her Bleeding and the antiphlogistic Method is certainly to be employed; the even here some usern jections of Jascharum Saturnie which as we shall see here after is one of the strongest Astringents, but this practice appears to be highly improper. When the Inflammation is somewhat abated we may use Astringents sparingly: when the Inflammation is quite gone of if the Running still continues we may up as tringents with Safety. It will be best to give them first internally and if this not sufficient they may be applied externally when Balsamies and Demulsent will not effect the Bure. The Theor albus is a Disease which seldom affects young Women, but most commonly occurs in Women somewhat advanced in Life who have borne several Children and proves a frequent bause of Barenes. If it has continued for any length of time we must observe the Rules laid down for the exhibition of astringents in Gernorrhages. We should make ourselves partieu: larly acquainted with the bause of the Diseave before we exhibit any Medicino for the Removal of it. If the Discharge is owing to Jumours and Alcerations of the Uterus Astringents will be highly improper. In this base we must emply such Remedies as have a tendency to resolve those Tumours. Of these the bus. to is the principal. This with gentle Saxations will often produce a bure. When the Discharge depends entirely whon Laxity and Debelity of the titerus astrin. gents prove highly useful.

Astringents are also employed to excite the Secretions and Evalua. tions; This may at first appear rather unaccountable, but if we consider that the Suppression of different evacuations is often owing to Weakings and Relaxation

of

of the part. You will easily see how astringents by restoring strength and somets the part will also restore the Evacuation. In this manner astringents prove service able in the Chilorosis and in Costinents arising from a weakened peristaltic Motion of the Intestines. Astringents are likewise recommended in the Stone and Gravel. They mitigate the pain attending these Complaints and cometimes entirely cure it. We have such well attended proof of their Use in these Diseases that we can have no doubt of it. Dan Switch and De Gaen above us that the Uva Ursi which we shall find to be one of the strongest Vegetable astringents mitigates and even sometimes cures the pain arising from the Stone, while the stone itself is not altered either in Shape on Size as appears from the Catheten. Hucher afserts that all the most famous Lie thontry plies ever in use either were Astringents or acted as such. This we shall consider more fully when we come to treat of the Virtues of the Uva Ursi & Sime. Water.

Cause of Inflammation is an increased action of the Vefels in the part. This may be brought on by various Causes, Thickness and Stagnation of the Aumouss which may be brought on by too great straightness of the Vefels on by laxity of the Vefels on external Stimuli. Where there is too great an action of the Vefels as in the Young and Strong, Bleeding and the antiphlogistic Method are highly proper. In the Old and Infirm Inflammation is generally brought on by a Laxity of the Vefels. In the Old and Infirm Inflammation is generally brought on by a Laxity of the Vefels. In this Case Bleeding is improper and Astringents should be employed. In the Young Inflammation generally terminates in Suppuration in the Old in Gangrene in both which Cases we have seen Astringents are employed.

We come now to speak of the Particular Astringents.

These are either Fosile or Negetable. The Fosile are divided into the Earthy, Saline and Metallie. The Earthy are subdivided into Boles, Clays and absorbent Earths. Boles are of little Consequence in Medicine and might perhaps be entirely rejected; for as they are insoluble in acids and the Fluids of our System no Effects can be expected from them. They have been said to act as astringents, as they contain Iron or alum but if we want to employ these Substances we should employ such preparations of them as will enable us to ascertain the Dove with more certainty than we can in the Bolus. If they exert any Effects in our System they are I believe bad ones. They have indeed been accused and perhaps with propriety

propriety of lodging in the plice of the Stomach and Intestines and there for ming or serving as a Nucleus for the formation of Calculous Concretions. They may be employed externally to dry up eacefrive serous Discharges by the Skin buthen

any dry powder will answer equally well.

The Clays or Argillaceous Earths are distinguished from absorbent Earth by their not effervescing with acids they are now never employed in Medicine as They can have but little or no effects whon our System. absorbent Earths ef fervesce with and neutralize axids of all kinds and for this reason may be em. played when there is a prevailing Acid in the Stomach. They have been used in Dearrhoas and Dypenteries. When a Diarrhaa arises from a prevailing aced which is frequently the base in Children and which is discoverable by the green bolow of their Stools, Magnesia, Chalk brabs Eigs, or any other absorbent Earth by neutralizing the acid may cure the Disorder. They do no here by any means act as Astringents. They are much oftener given with a view of opening the Bowels. as D. Pringle has found absorbent Earths to be septie by absorbing the acid in the Stomach, they are highly improper in the Dysentery; we however still see them prescribed in this Disorder. Thus bal. and Fartshome is added to the Decostum album of the Pharmacopaa for perum of the Edinburgh Infirmary Chalk has been substituted for the Calcined Authorne but its Effects in this base are certainly permisons. We are next to speak of the Saline Carths as Astringents: Ofthe the principal and perhaps the only one is Alein. This is formed by the Combination of the Vitriolic acid with a particular kind of Clay. The Hum which we have in the Shops is artificially formed of this blay. Of this we have two hinds the Roman and the Common Alum and whatever difference this may be with regard to their Use in Diging. There is certainly little or none in Me. dicine. When alum is found native it is called alumen plumosum!

alum is one of the strongest and at the same time safest astringents. as it is easily soluble in the Fluids of our Body its Effects are soon extended overthe System. It is of more general Use than either the Megetable or Metallie astringent, for its Operation is much quicker. It acts in smaller Doses than the Vegetable astringents and as it has a sedative quality combined with its astringency

may be employed when the Metallic Astringents on account of their Stimulus we prove hurtful. Alum has been employed with advantage in Inflammation of the Eyes more especially when it is owing to relaxation and Debility as in Old people. I have already shown you how Daxity may prove the Gause of Inflammation by causing an accumulation of the Blood in the Defects of the Part. When Inflammation is brought on by Laxity general Bleeding is permisious, but if there is too great a quantity of Blood in the Part I opical Bleeding by Eupping and Leaches will be need fory to prevent an rupture of the Ulfseld. The general mode of employing alum in this base is to rub a piece of it in the White of an Egg untill it becomes hard and then spread it on a Rag and apply it to the Eyes. Alum is very useful in relaxed and putrid Jums in the Source, mixed with Sage vea and sweetened with Honey to serve as a Jaryle Itmay also be used in this Way in Anginas arising from Relaxation with good Effects. Sydenham in this base recommends the Ultriolic acid but alum will answer full as well if not better.

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alum has been applied externally to dry up Exerctions of the Skin, as exceptive Sweating under the arm pits. But as it is often improper to dry up such Excretions at all it is evident the Use of alum in this base must be very pernicious and oftentimes attended with imminent Danger. I once saw a base where from drying up an tracuation of this kind the humours were thrown upon the Bowels and a Chronic Diarrhoa brought on which notwithstanding every Medicine was employed for his Relief at last carried him off In violent Hemorrhages alim is one of the best Substances and most to be depended upon when given internally. It may also be applied externally. Bleeding at the More may be stopped by filling the Mostril from which the Blood issues with a Tent on Dofsil of Lint dipped in a Sole. tion of Alum (even the it should put the patient to some pain) and at the same time applying bloths dipped in bold Vinegas or Water to the fore. head, brown of the Head and Back of the Mech. These different applicati. ons are you see intended to cause Refrigeration and to moderate the Impetus of the Blood. alum taken internally acts both as a Sedative and an astringent in cheeking Hemorrhages. Delvetius's preparation of alum for which he obtained a premium and pension from Louis 14th of

drance

France is made, as every Dispensatory will inform you by melting Sanguis Draconis over the Fire in an Iron Sadle and adding to it as much alumin powder as it will take up. The Sanguis Draconis gives no additional Virtues to the alum but only serves as a convenient Vehicle to form it into pills In the Edinburgh Pharmacopaa verra Japonica is substituted for the Sanguis Draconis to little effect as the alum can recieve no additional Wirtues fromit The best Method perhaps on that which I invariably follow is to form it into Boluses with Conserv. Rosar. from 4 to 10 or Even 13 grains in a bolusti be repeated every how on half how if necessary. In Thompson in the Medical Esays tells us that in violent Temorrhages of the Uterus he has given half a Drachm every hour. Tew Stomach's however can bear such large Doses with out Nausel and even Comiting. As we should endeavour only to moderate and not suddenly stop Demorrhages small Doses frequently repeated should be preferred. A Nausea is so aft to attend the Use of alum that it often. times renders the Exhibition of it very difficult. In Malouin apures us thatif we combine a little Cinnabar with the alum it will even prevent the Man sea. However this be there is no doubt but that Belvetius's Method, which I generally pursue is very rational viz. of adding Opium to the Alumithis will prevent the Mausea and give the alum time to exert its astringent of. fects. Do grasbury assures is that alum is of Service in the bolica picto. num. D. Thompson recommends it in the Theor albus. D. Cullen advices it to be employed in Diarrhaas and Dysenteries where he thinks it will not only act by its astringent but also by its antesaptic qualities . It is also said to be serviceable in Intermittent Gevers when combined with Aromatist taken just beforothe Fit comes on. It has also been recommended in continue Trevers: with regard to its use in these Disorders I can say nothing as I new had Oceasion to make trial of it in those bases. I am not forward in ma king Experiments whon my patients, the if the Medicines usually found to succeed in these Cases should fail Ishould have no Objection to trying the alum and even then I should feel very uneasy whilst my patient was un. der the Operation of a doubtful Remedy.

We are in the next place to enter upon the Consideration of Me. tatlie Astringents.

The first of

The first of these is Copper This is a Metal soluble in our Fluids and in all Saline Substances. It may be combined with acids, alkalies and Neutral Sats. If there is any difference in the preparations those with alkalies are the most Stimes. lating, with Neutral Salts the mildest and that with the Muriatio acid the most powerful Astringent. Copper is a very powerful Stimulant and excites Comiting even when taken in very small Doses. as the Combinations with Neutral Patts are the mildest we should always prefer them. Copper has been used with very good Surrely in Dropsies where by its Stimulus it proves diuretic and purgatives and at the same time by its astringency gives some Some to the System. It is employed in Asmorrhages but in this base it is inferior to alum or the preparation of Load The Roman Vitriol is applied externally to stop Hemorrhages which it does not only by contracting the Solids but also by coagulating the Fluids with which it immediately comes in Contact. Boyle in Cases of Temorrhage recommends the Ens Oeneris: but since his time Physicians have employed more time in dispu ting concerning the preparation of this Medicine than making vials of its Efficacy. Some have afserted that it is preparation of Iron. Boyle himself tells us that it is a Preparation of Copper and indeed no preparation of Iron can produce the same Effects with the Ens Veneris. There are directions for obtaining it in Chrystals in the 1th Vol of the act. Mater. Curiosorum. It is in short this. We dissolve any quantity of Roman Vitriol in Distilled or Rain Water and fitter the Solution and to this feltrated Solution add Shir. Sal. ammorias volat. untill nothing more will precipitate. We then four on highly rectified Spirit of Wine to seperate the Water which is to be poured off and elegant small sapphire coloured Chry. stals will be found which after being sufficiently dried are to be kept in a Bottle well secured from the air. In this base we have all the Advantages of any other preparation and never any Muriatie acid combined with the Copper This is a very powerful astringent and antispasmodic and takes of the Mobility of the Mer. vous System. Hence it is of service is bases of Universal Laxity e.g. the lick ets as Mr. Boyle observes. It has been used with Sucess in Mania and Epilepsy Boyle recommends the Ens Veneris as an anodyne and says that it acts without the inflammatory qualities, and restlepness produced by Opium. If we con: sides the properties of Copper we shall find it difficult to afsent to this assertion Experience does not conform it. We may here observe what Fallaies even great New are liable to fall into. The Ens Veneris in some particular bases by acting as an antispad mod antispasmodic might prove anodyne but on this account to prefer it to Opium we be highly abourd. Boyle likewise recommends it in petechial Fevers accompanies with subsultus Sendinum and says it is particularly useful in taking off the Nervou Symptoms. In this base also its effects are doubtful and I would never employ it is lefs the Medicines generally found to succeed in these Disorders should fail and we then I would use it with Reluctance?

all the preparations of Copper applied to Worms out of the Body in. stantly destroy them and there is no doubt but they would produce the samely. fects in the Body if they could be retained in sufficient quantities on the Stomach's single Drop of a Solution of Copper in the Polatile alkali vomited a Child to whom a was exhibited. The Cuprum ammoniacum is more likely to succeed than any other preparation. The Roman Vitriol has of late been emplayed in the London Hospital for the bure of Intermittents, and frequently with good Success. The Dose is from

grifo to gry.

Copper is employed in Germany to prevent the Hydrophobia conse. quent on the Bite of a Mad Dog; The Dose is Ifs of Copper Filings strewed upon buttered Bread. In experienced Physician of Copenhagen abured me that he had given it repeatedly to persons who told him they had been bit by Mad Dogs. I should not have mentioned this did I not find that DE President? the Society of Berlin mentions it and tells us that he had tried it and that it he ver failed of Success. There is no reason to doubt of this gentlemans Candow and Deracity but whether the Dog was really mad is what ought to have been en quired into Persons that are bit by a Dog being apprehensive that he is mad me use of any Medicine to prevent the Hydrophobia and when this does not appear they ascribe it to the efficacy of the Medicine when afterwards it appears that the to The vicious was not mad. It appears to be this that decieved In Mead with re. gard to his powder, which it is probable never produced any good Effects in single base of Hydrophobia from real Canine Madness. This Disorder is of a spasmodie Mature and is often attended with violent Convulsions. I had an ope portunity of observing this and the progress of the Disease in a Girl of Byears of age at the Edenburgh Infirmary, where notwithstanding every thing was attempted for her Relief she died in a short time. Possibly Copies which is poor enfully astringent and antispasmodic may prevent the Hydrophobia from coming

Copper is applied in external applications to Ulears as a digestive and

escharotic. By stimulating the Ulefels it may produce that degree of Inflammation which is necessary for the Form ation of good pus. The antients frequently employed it in both these Intentions. Mercury is now more generally employed. But there are Cases when Copper is preferable to e Hereury. D" Cullen gives you an account of a disease that appeared a good many years ago in Scotland with Ulerations of the Mouth and Fauces, Alcers in the Tongue about the anus and in different parts of the Body resembling the Venereal Disease but distinguished from it by the different Sloughs of the Uliers, their primated appearance want of Infection from Carnal Communication to Mercury in this Disease was tried with no Success but bopper almost always effected a bure. a Solution of Werdigris ap. plied to the songue very easily and the Meers there by inducing a good Suppu ration but as more difficultly applied to the Tonsils also less quick in producing a Cure. This Disease seems to resemble very much what in the Southern part of this Continent is called the Jaws which we are also informed will not some times yield to Mercury. From this whenever we have a difficult Ulier under our Care we should never despair of a bure untill we have tried the Effects of Copper For the purpose of Escharotics the best preparations of Copper are the mel & Anguentum Egyptiacum. Iwould here advise never to be too free with Escharotics at all for by the frequent Use of them for the Removal of Jungous Hest a good Wound is often converted into an ill conditioned Alcer. A Surgeon of great Experience informed me that he very seldom used Escharo = ties and when he did use them he never applied them to the Body of the Wound but only to the Edges. When they are absolutely necessary we may apply some mel Agyptiacum to the edges of the Uleer. The Escharoties most in use are Roman Vitriol, Burnt alum the red and White precipitates. as to the Dors of Copper taken internally no certain Rules can be laid down concerning them for one person may take a certain Dose without Nausea while at the same time half that quantity will womit another. The best Method is to begin with small Doses and to increase them gradually as Occasion requires.

Iron

1 the

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Prince

This is a Metal of more general Use than any other it may be combined with most saline Substances and it is soluble in all the acids. The Negetable

Degetable acid however only corrodes it but extracts all its Wirtues. It may begin ven in Substance as it will be corroded by the asid in the Stomach, but this is always an uncertain method for if it does not meet with this it will produce disagreeable. Effects merely from its Weight and Mechanical action. We ought therefore to use some preparation and it is of no great Consequence which we em. ploy as they are all properted of similar Wirtues. When we want it in a powde by form Lemeny's Method is the best vizy to let Water about an Inch dep digest upon Iron Hillings by which Means part will be converted into a finether powder which may be separated from the uncorroded & ron filings by shaking the Wepels. From combined with the acid of Sea Salt gives us the vineturo Man tis of the Shops. This will readily combine with highly rectified Spirit of low and forms a kind of dulcified Spirit of Salt of a very agreeable Thavour. Inon is purely astringent without the stimulating Effects of Copper or the de. dative and deleterious ones of Lead, but it is neither so powerful an astrin. gent as the one nor so much of and antispasmodie as the other from its & tringency From is indicated in all bases of Saxity and Debility and in Ob. structions and sluggishness proceeding from this bause. Iron is likewise en ployed as an antispasmodic taking of the Mobility and Irritability of the moving Tibres. It is on this account in dicated in the Hysteries, when it is not to be given during the paroxysm, but it is to be employed the paroxysmto prevent its Return. It often proves a Bure in this Disorder and it is probe ble would prove so oftener were not this Disease frequently are ompanied to Obstructions of the Visiera. On this account I generally some Magnesia with the Chaly be fept Chalk or any other Obsorbent forms a Neutral withthe acid in the Homach which proves a gentle Saxative and prevents the box. twents which would otherwise take place. This Combination produces better Effects than any other preparation except the mineral waters which often produce Effects not to be imitated by any preparations in the Shops. This undoubtedly owing to the smallness of the Doses as they contain nothing but Fron, and the strongly impregnated totalers seldom answer so well as the week ones. Iron is sometimes combined with Bitters and Gromatics and in this way it may be given to advantage in a very relaxed state of the Stomach. Whenever we must continue the Use of aron for any considerable

Time the most agreeable way of taking it is to quench a Red hot Iron in byder or Wine and make Use of it for a common Drink Iron has been recommended in the Rypochondria Disease, but as this Disease is commonly attended with Rigi dity the use of Iron is certainly improper. Itseems to have been given on account of the Similarity which some supposed to take place between the My sterie and My. poshondriae Disease: we know them now to be entirely distinct. D. Cullen gives the History of each Disease and points out the difference between them very properly The following Circumstances will tend to show us that they are distinct. The Hysterie Disease is accompanied with a laxity of the Solids, Itatulencies, a disordered State of the Bowels and frequently with loose Stools: It generally attacks Women is purely spassnodis, is generally incidental and is relieved by bold Wea ther, hence it is not so frequent in the Morthern as in the Southern Climates. The Hypochondriae Disease is accompanied with a Rigidity of the Solids Contiveness and sometimes spasms of the abdomen, but it is seldom furely spasmodie: It generally attacks people of a melancholy Semperament and in the decline of Sife is commonly habitual and is not so frequent in the Southern as in the Northern Climates; they are sometimes both combined in the same person! Iron has been employed for the Cure of Intermittents particularly by Dr Stahl & his hollowers. They laying it down as a Maxim that a hever was an Effort of Mature to throw off some morbid Matter from the Body thought it improper to dis. turb her in her Operations and therefore employed the precession Barks very sparing. by. They made also of a very subtle browns Martis but did not know that this acted in the same Manner with Other Astringents and even peruvian Bark itself. Fron is employed with advantage in the Chlorosis and Suppression of the Menses owing to this bause. I say owing to this bause because a Suppression of the Menses is not always owing to this Cause but is oftentimes occasioned by ligidity and Spasms of the Uterus in which bases Iron proves hurtful. The use of Iron is improper in all Inflammatory Diseases and in Temoptoe and other Femorrhages attended with Inflammatory Symptoms. It is improper in all Obstructions of the Viscera and wherever there is a Disposition to putrefaction. It ought likewise to be avoided in Consumptions and plethoris Habits. In Bilious Diseases weought not to use it except in small Doses. In Where of the Lungs and other Viscera it is not to be given unless very much diluted. In these bases the Mineral Waters will answer better than any other preparation. How patient cannot have the ad.

title

Advantage of these we may make an artificial Mineral Water by dispolving for or five grains of Sal Martis in two quarts of Water. The Use of this should al ways be accompanied with a proper degree of Evercise. Iron is possessed of a considerable Vermifuge quality. Chaly so that has been commonly employed into Intention. I have frequently made Use of it with Success. Inow however generally use Sal Martis and think it much preferable to the prepared Steel or anyother preparation. It not only destroys the Mound present but by strengthening and giving Some to the Intestines it prevents their future Generation, for when we come to treat of Anthelminties we shall find that a relaxed state of the Intestine is the most frequent bause of Glorins. Igenerally give it from grij to gr. at a dose mixed with a little Molapes or Syrup not only to conseal the Faste but also because all Sweets have the power of destroying Worms. I have founded Martis to be a very useful Remedy in Relaxation of the Stomach producing Indi. gestions, Flatulenies and frequent Returns of a violent Colie. In these bases I gu. nerally give it in doses of grij made into pills with bastile Soap and occasionally little Rhubarb added to prevent Costiveness. Sal Martis and all the other prepare tions of Iron will give a dark Colour to the alsine haves.

The next Metallic Astringent we are to treat of is

Lead.

This is only used in Medicine when combined with vome other bulstance. The balk of Sead with Oil forms the Emplastrum Commune which is the Obs sis of most other plaisters. In this Sead answers no other purpose but that of giving proper Consistence. Lead is active only when combined with any of the Acids, but in Medicine we generally employ the Composition of it with the Negetath Acid Phis gives us the Acetum Litharginites of Goulard a famous Surgeon of montpolic in France, which is the Basis of the Bougies that go under his his hame. The Acetum Lithargetes is prepared in the following Manner which have as many pounds of balk of Lead; e.g. Litharge as prints of Vinegae and boil them together over the Rice. After they have boiled for vome time We from off the Liquor and keep it for Use. It alf an Ounce of this Extractum Saturni as Medoulard calls it is to be added to a pound of melted Was. When these are fully incorporated we dip pieces of Linner of melted Was. When these are fully incorporated we dip pieces of Linner of melted Was. When these are fully incorporated we dip pieces of Linner of melted Was. When these are fully incorporated we dip pieces of Linner of melted Was. When these are fully incorporated we dip pieces of Linner cut in the Shape of a vongue into the Composition, and when they are cold

cold we roll them up into the form of a Gorgie. These will answer very well if the Caruneles or excremencies in the Wrethra are not of long standing. When they have remained a long time with Fistulas we must make our Bougies something stronger we then take an Ounce and a half or two ounces of the Extrast Saturnito 6 ounces of Wax and dip the former Bougies into this Com. position Bougies prepared of nothing but Wax, Deer's Fat, and Dilof almonds have been found of Service where the Urethra is so sensible as not to bear any other Bougies. Some add Mercury to their Bougies but those we have described will answer every Intention of a Borigie. The Linner we make use of for making Bougies should be fine Holland; that which has been worn by which it is rende. red softer, cut into a linguiform shape answers best . The Composition should neithen be too hot nor too cold and be should be careful not to suffer any air Bubbles to remain on the Linnen which would render the Bougie unequal. Bougies are used when there are Excrescencies in the Urethra with or without a gleet. We know that these Excrescencies exist when the Water will not poss in a continued Stream, but oftentimes comes off by drops and sometimes by two Streams with pain. They are generally immitted at night and suffered to remain till Morning. They frequently produce pain with some Degree of Inflamma. tion and consequent Suppuration! They destroy Caruneles by indusing a Suppuration in these; they care fleets by producing a Constriction of the Glands in the Wrethra; a relaxation of which alone we know sufficient to keep up the Discharge. Lead besides its astringent is possepsed of considerable Sedative Mortues It old always be used with the utmost Caution for when continued for any length of time it is att to produce paralytic Offertions of different parts particularly of the Extremities. The acetum Lithargeretes is employed for various extendal applications. It is generally employed considerably diluted. a spoonful of the act. Lithang. with a couple of Spoonfuls of french Brandy are added to a Bottle of Wath. This Combination is well known under the Name of aqua Vegoto-Mi. neralis or Lead Water. This is employed with advantage in inflamed Eyps. a Drop of it is instilled into the Eyes at a time and is repeated three or four times a day or else a Compress moistened with it is kept applied to the Eyes. It is likewises aid to be useful in pains of the Ears when Deafness is apprehend. a teaspoonful is poured first into one law and 5 or 6 after into the other a Compress moistened in it is very serviceable in Scalds, Burns and other Cases of this Materie. It is also employed in Cases of partial Expipeles

cue from

if it does not produce speedy Relief here the Use of it should not be permitter lest the part should become gangrenous. It is recommended in fistulous Ulcers. In Sprains a Compress moistened with it produces very good Effects; it effective by takes off the pain and swelling which generally attends these bases. M. Goulard recommends a poultie of Bread with the acet. Lithang. in the pare mychia. This Disease commonly called a Felow generally attacks the joints of the Lingers and after tormenting the patient with a most acute pain for two three Days some Degree of Suppuration takes place, anill conditioned Uleri formed and the disorder generally terminates in the lop of the Joint. If this appli. cation upon Trial is found to be posses'd of the Virtues M. Goulard attributes to it we may consider it as a valuable Improvement for no Medicine hitherto known in been found serviceable in this Disorder. This I mention that in Case you should employ it, you may not attribute the Vailure to the inefficacy of the Medicine who perhaps it is owing to the Disorder being too far advanced. It is likewise employed with advantage in the piles and in the Hernia Scrotalis and even in a strange lated Hernia, in this last Case it should be applied bold. It is likewise employed in scropphulous Indurations of the blands with Success.

Saccharum Saturni which is the acetum Sythangetes in form of Chrystat is recommended by Boerhaave in Toulness and Eruptions of the Skin, in partial Inflammations as refrigerant and as a forgretis. It yours one of the best practiced Writers upon the Diseases of the Eyes recommends it in Inflammations of thow Organs. It is employed in Scalds and Burns. M. Bell of Edinburgh prefers Solution of Saucharum Saturnie in Water to the acet Sitharg as we can be more certain of the Strength of the former than of the latter; and the latter is of to let fall a Sediment which the former will not especially if a little Vinegara added. Boerhaave, Feister and others recommend Saccharum Saturni in Sol The to prevent its becoming Cancerous. a Scirrhus is a hard indolent Suman which will often remain for a long time without giving the patient any I mon venience; but if it is injured or any Stimulus be applied to it a suite pain are frequently felt shooting thro' it, it ulcerates and besomes a Cancer Lead by its sedative qualities hendering the part les sensible may prevent this Effet from taking place. In this base I would prefer the strong Vinegar of Lead without any Spirit. It may be applied in form of a poultise with Bread or mixed with Flower to a proper Consistence and then spread upon a Rag

and applied over the part. I consider the Introduction of Lead Water into general practice as a very considerable Improvement, but, like all other efficacious Medicines when employed improperly it may produce bad Effects. Lead used in advice tently produces oftentimes paralytic affections of Different barts. It is hurtful in Eruptions of the Skin from Relaxation. When it is employed for too great a length of vime in Brypipelas it may produce Mortification. Mercury and Lead are sometimes employed in Medicine combined under the Names of Trochisci & Minio. These have been used with Succept in Scrophulous Ulcers. They ought to be used only when the Ulcers are few, for if they are numerous and the Medicine is administred too freely its Exhibition may be attended with disagreeable Effects.

Saccharum Saturni is employed internally in Hemorrhages when it acts

Saccharum Saturni is employed internally in Hemorrhages when it acts both as an Astringent and Sedative. It is likewise employed in Diarhaas Dysenteries, Flicor Albus and Gleets. For a few Doses it may be given perhaps without bad Effects, but it should not be continued long as disagreeable Conse. quencies will certainly follow. Sacch. Saturn. and R. Antiphthisica into which that certainly enters have been used with success in Continued Frevers which that certainly enters have been used with success in Continued Frevers and have proved very useful in taking off the Mervous Symptoms. M. John Slunter recommends the Sacchar Saturni in the Tetanus. I have never seen it tried in this Complaint nor do I know that it has ever been tried here.

White Lead is employed externally in the Form of an Dintment for the Cure of Burns. It ought not to be used long for it induces such a degree of blackity as renders the parts very difficult to heal. White Lead is also used by the Ladies as a bosmetic to produce a fair hand and to take of those meetles and Shots with which they are sometimes troubled. They however pay dearly for this short livid Beauty; the Skin becomes dry and shrivelled, a disagreeable Sallowness with pimples take place which remain during life.

Lead has been accused of producing the bolica pictonium and palsies of different parts. The bolica pictonium is distinguished from all the other Species of bolic by its frequently terminating in palsies of the lower Extremities. The Ristory of the Disease however will better enable us to know this Disease. The patient suddenly feels a twisting pain in the Abdomen but in general this is preceded by the following Symptoms. There is a Weight and oppression in the Tegion of the Stomach a Nausea and Aversion to Good: a heaviness of Mind a Languor of Body, a dinness of Sight and a paleness of bountenance a pain in the Abdomen generally situated about the Mavel with a Sensation as fain in the Abdomen generally situated about the Mavel with a Sensation as

if the part were twisting or as if Somebody were boring it. The Epigastrium som times feels hard to the South but not always, and is generally retracted toward the Spine with great pain. The pain sometimes remits for a short time but " turns again with increased Violence, forcing bold sweats. From the Violence of the pain the patient is entirely deprived of Sleep; there is little or no Eva. cuation by stool; when any have are voided they are hard round and so reely larger than sheep Dung. The Amus is very much constructed and its sometimes almost impossible to force a passage: it appears also to be drawn up wards. The same Constriction takes place in the Urinary, passages there is a great Sickness at the Stomach, Mausea and sometimes Comiting which somewhat relieves the patient for a short time. In the beginning of the Dis order there is some times no Fever; as it advances the pulse becomes frequent, small weak and con tracted. The Thirst is not very great. The disorder generally continues in this way for 12 or 14 days, about which time a slight pain is felt along the spin ofth Scapula which at last becomes fixed and caused a Weakness in the arms to Weakness gradually increases untill it is changed into a paralytic affection of the upper Extremities. The Geeling is much impaired, the seldom entirely destroyed Sometimes both upper and lower Extremities are affected, but this is seldom the Case, the upper Extremities alone being most generally affected From the Time the Extremities are paralytic the pain in the abdomen entirely ceases. The most common bause of this Disease is the poison of Load introduced in the Body: hence we find those employed in Mines digging of Sead and Show especially who are employed in melting Lead and exposed to the Vapon of it are very often afflicted with this bolis. Potters also who make use of Lead in Glazing their Earthen Ware and are exposed to the Napours are sul. jest to this Disease that it has been called from them bolica figulorum. Painters who use White Lead in their art are also very subject to this Disne and from thence it has been called the Colica pistonem. It is often found to brought on by sophisticated Wines. Some Vintners when the Wines become pucked or tend to acidity mix with them a quantity of Sitharge or So. gas of Lead which sufficiently obviates this vendency. De Tronchin who has written an excellent Treatise on this Subject shows that in those bities who the Houses are covered with Lead or where the Water that is used for Drink or booking is preserved in Leaden Cisterns, the Inhabitants are very only

to the Colica Pictonum. He gives us an Instance in amsterdam; the Houses in this City were formerly covered with Tiles, but when it increased in Riches, they were covered with Lead! The Leaves of the Trees which make amsterdam look almost like a Horest being carried by the Wind whow the wops of the Houses there undergo a here mentation and corrode part of the Lead. When it rains this part is carried down into the bisterns with the Water which the Inhabitants use in their daily Food and since the Houses have been covered with Lead the bolica pictonum has been very common in that bity, whereas formerly it was scarcely ever heard of. This to. lie is very common in those Counties of England where great quantities of by der are made and it has been commonly ascribed to the fermenting Juice of the apple Dr. akenside has shown that it is not owing to the Egder but to the Lead contained in the lyder. He observes that in the lyder Prefses they mostly make use of lea. den pipes. If the Disorder were owing to the Egder alone we should be as much or more subject to it in this Country; where Thermentation is carried on more or. gorously from the Heat of the blinate, than the Inhabitants of Great Britain but we find this is not the base: Our Cyder presses have no Lead about them, we employ Wooden or Iron pipes. For the bure of this Disease; it would only be taking up your time to say any thing on it as it has been treated in so masterly a manner by many able Writers. You may consult akenside, De Haen, Auxham, and Aillary; Tipot, Tronchin, bullen and many others. I shall only mention one Fact which I met with in D. De Hach's Ratio Medendi. Aungary is a Country, rich in Mines but poor in Inhabitarits; numbers that work in the Lead Mines are carried off annually by the bolica Pictonim. In De Haen observed that the minus in one particular Shot remained remarkably free from this Disorder. This they altred buted to their having followed the advice of a certain Hinerant quack which wasto give the Min every morning before they went to work a piece of brown Bread spread with Hogo hat or Lard. Since they had pursued this method which was about three years they had rarely ever been troubled with this bolis, the before that time it had been very frequent among them. This was confirmed to him by the physicians who had attended their people for 12 years. There is no doubt but that a Breakfast of this king, which being difficult of Digestion would remain long whom the Stomach, would effect ally tend to sheather and obtund the acrimony of the Lead. A Dinner of fat Broths would still farther tend to produce this Effect. From this Fast we learn that Oil taken by the mouth and thrown in by flysters would be of great use in this Dis. order. We also learn that the best preservative for those who are exposed to Leadas printers

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painters is to live principally whom fat Meats and to use large quantities of Button and Oil, or to take from time to time a Spoonful of Oil.

The next Metallic Astringent is

Line.

This has been frequently used in various external applications. Clair Swieten recommends a Solution of the Howers of Line in Water as an Astringent in Weak ness of the Eyes. This Solution is also recommended when the Skin has been hurt by friction or in Riding. In most Chronic Diseases the Skin is aft to breaking different places this we may generally foretell by red spots appearing on the stand of these parts are bathed with a Solution of the Hores Line the Thin will ge. nerally be prevented from breaking. Children and Fat people are aft to chape or have their Skin sore in different parts: This may be prevented, or when it hasta ken place be remedied by the same Solution. Lapis Calaminaris and July un employed to give Consistence in some plaisters and Cintments. They are popular of no Vintues, for they will give no Impregnation to Water and shew no Wirter when combined with Vinegas. White Vitriol is a Combination of Zine with the Vitriolic acid it is employed externally in Hemorrhages it is likewise used with god Success in Inflammations of the Eyas. We may likewise employ an Injection of it with Advantage in a Gonorrha a when the Inflammation is gone. It is said to be a po erful emetic and is recommended to be given where poison has been swallows The Howers of Line have been lately introduced into Medicine with many Jes. timonies of their Efficacy. The Fistory of this Medicine is found in the Medical Commentaries of Edinburgh, a Work begun some years ago by a Society of Physicians in that City and continued ever since.

Having finished the Consideration of the Fossile, and particularly of the Metallies astringents we are next to treat of

Vegetable Astringents.

These differ from the tropile in several material points: 1. They are not so quick in their Operation as the Metallie astringents, 2nds Their action is more confined to the prima Via; whereas the Metallic astringents by their Stimulus extend their Effects more over the System; 3rdy They are weaker and in any Exigency as in violent Hem orrhages are not to be trusted to. Where we want to bring about a gradual Change in the System Vegetable astringents are to be preferred but when we want a strong, certain and oudden astruction they are greatly inferior to the Rossile. They should always if possible be given in substance for we have no menstreum to extract their Virtues. We have indeed Water and Spirit of wine, but the Impregnations in ge neral are very weak. Spirit of Wine likewise very much limits the Dose; for oup. posing "zj of Spirit will extract zj of any astringent which is allowing largely there are few bases in which we can give an Ounce of a Spirituous Fineture without producing worse Effects than those we intended to remedy. There is a remark of Do abston late profesor of Materia Medica at Edinburgh, that the peruvian Bank remains a long time upon the Stomach in a solid Form, it is probable that other Negetable astringents do so too. D. Cullen says he has seen the Bank thrown who unchanged & days after its exhibition and in this case the Stomach must have been in a Diseased State and we find Good thrown up unchanged after it has remained a Day or two or even longer whom the Stomach. Vegetable astringents when taken in Substance will remain longer whom the Stomach than when in Solution, hence their Virtues will be more completely extracted and they will prove more service able as Negetable astringents are longer in the System before they are dipolved this is one Rea. sow why their Operation is not so quick. When given in Solution they seldom produces such considerable Effects as when given in Substance: They pap off more quickly and are aft to prove fungative. They are likewise in this state subject to Thermentotion by which their astringent powers may be destroyed. As the fossile astringents are not subject to this process and even resist it they are not liable to be changed in the prima Dia. Whenever we want to produce strong, sudden and certain Effects we should employ hopsile astringents; when we desire gradual Changes in the Constitution Constitution the Megetable astringents are to be preferred. They should be given Substance in form of powders, pills or Bolufses. As by the long continued use of them we are apt to induce Costiveness; we may to obviate this, combine some gentle Laxative with them. Rhubarb is one of the best as it has with its purgative an astringent quality. We should be careful not to employ such purgative as tend to produce Relaxation. However of Sulphur, Calomel where a few from will answer the Intention are the best we can employ. The now come to

bust of Particular Astringents.

The Operation of these you will understand from what has been said of this general Effects. I shall only take notice of such as have been recommended for particular purposes. De bullen has treated this blass of Medicines so and that you will not be at a loss if I should even be guilty of some Omissions.

Pentaphyllum or binquefoil is a simple and agreeable Astringent but a very weak one. Dias corides recommends a Decortion of Binquefoil for the sooth Ache and other Astringents have been recommended for the same purpose. As it is but weak no great Effects are to be expected from it, but from agreeableness it may be combined with other Astringents and prove serviceable in relaxed Habits of Body. It may be given in Infusion and used by the paties as a constant Drink. Townsfort assures us that he sured a Flior Albus by the Mose of the expressed Juice of the binquefoil. This Disorder we have said before is frequently owing to a general or partial Pelaxation and the bure is to be attended by gentle Astringents which restore some to the relaxed parts.

Rosed are sometimes employed in Medicine. They are a Weak astringent of an agreeable Odor and vaste. An Infusion of red Roses sweetened with Sugar will afford an excellent drink in putrid Fevers and Dysenteries much more a greeable than the nauseous Drinks generally, employed. This Infusion may be also employed to prevent the Return of Hemorrhages.

Tormentillas is a very hure astringent and for its Efficacy deserves to be placed at the Head of Megetable Astringents. In staly where it grows plentifully, it is used for the tanning of Seather. It was employed for the bure of Intermed. ents before the persion Bark was discovered and it Northes in this based were known in the time of Hippocrates. It was likewise amployed in all those based when

where the Peruvian Bark is now used with superior Efficary. The Indians on this Continent use with the same intention a plant of the same Nature with the sormentilla my, the yeum. For the Gure of Intermittents the sormentilla was generally combined with Bitters; for it is known that astringents combined with Bitters were highly serviceable in this Disorder long before they discowered that nature had formed this Combination in the Peruvian Bark At has been employed sime immemorial for the lure of Diarrhoas and Dysen. teries. It will no doubt be as proper as any other when astringents are ser. viceable in these bases. They are however not so frequently useful as is commonly supposed. We shall have a better Opportunity of enquiring into the Use of astringents in these bases hereafter and will therefore defer it till then. a Decor. tion of vormentilla has been recommended to prevent abortion. This nine times out of ten is owing to relaxation and irritation of the Uterus. A person who has suffered abortion from this Cause should immediately after Conseption be put whon the Use of some gentle astringent The Metallic astringents are not to be employed for by their stimulus they will increase the impeters of the Blood as well as the Danger of abortion: The legetable astringents are therefore to be fire. ferred. The best method of exhibiting them in this Case is in Infusion in Gold Water. An Ounce of somentilla may be macerated for 24 hours in a quart of Cold Water. Cold Water extracts the Virtues of astringent Pegetables: This I know from some Experiments made by myself and some of my Cotemporaries at Edinburgh. Thise or Six of us formed ourselves into a private society solely for the purposes of enquiring into the Virtues of Medicines and the best manner of Preparing them. We among others tried astringents and found that their Virtues were best extracted by Gold Infusions. We tried all the different astrin . gents we could lay our hands whon or that were used in Medicine and found the Result always the same. Infusion in bold Water for 24 hours extracted their Virtues more powerfully than any other Menstruum. This I do not recollect to have seen taken Notice of by any author. It is however a Fact to which I would advise you to pay a particular attention in base you employ any nege table astringent and cannot give it in Substance.

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Rubia or Madder is a very weak astringent and as such might hals unnoticed. It deserves however to be mentioned on account of another property which

which it possesses. It has been found to colour the Bones of those animals the feed upon it red. It appears that the Bones of young animals are sooner can red than those of Old; that the Calless of a broken bone is not tinged and the Tendons, Sigaments, Nerves and indeed every part but Bones are not coloured by M. Leveret a famous Man-Midwife at Paris recommends Maddor in the Re ats and assures us that he has employed it with Sucress. In this disease how nature generally performs the loure and we trust in one to the bold Bath to app her than any other Remedy, I cannot imagine how a Substance that is said render the animals that feed whom it sluggish and heavy should have any Effect in this Disease. Madder has been recommended for the Cours of Jaundice but is properses no Wirtues by which it may effect a bure in this Disorder. It has con monly been employed in this Disease with many other Substances merely for its bolow. We now know that the foundies is generally owing to Concretion in the Biliary Duct, by which the free passage of the Bile into the Duodenum is prevented, a regurgitation is produced and an absorption of that Thuis or the System takes place. The Disorder generally, goes off suddenly, from the Conert on passing into the Intestines of itself and being evacuated by Stool. The Medica that happens to be given at this time is generally thought to perform a live the Bure depends whom Solution or Evacuation of this Concretion. Witherto we have discovered no Medicine that will dissolve it; we must therefore depend entire whom Evacuation. This is to be attempted by Emollients, Emeties or Laxatives. these we produce a relaxation in the parts and compress the Liver by which the expulsion of the Concretion into the Intestines is promoted. In Schultz Profe sor of Medicine at Halle recommends a Desoction of Madder in the Dis order called the gutta rosacea or a red pimply Face.

Bistorta is a simple and obrong Astringent. It has been recommended from time immemorial for the sorth ache and for strengthening and fait ening loose Sceth. Many other astringents have been recommended for the same purpose, for which they will answer much better than the Dentification made use of. As the Soundness of the Teeth depends in a good sure whom the Soundness and purity of the Gums, there is no Doubt but that any moderately astringent application, as washing the Mouth with Decoction of Bistort or even chewing the Root, by rendering the Gums for

and sound and by promoting the birculation in the smaller Welsels willion. thibute to fix the seeth firmly in their Sockets, give them a white bolour, and, if any thing will have this effect, preserve them from Decay.

La pathum or Docko kinds. Of this there are various species and they all agree in Virtues. They have all been recommended in the Survey and in butice Habit of Body. The Atch has been thought to be owing to a store, butic Habit of Body and the Dock has been employed for the Cure of it: Thus we find it is an Ingredient in the Unquentum antipooricum of the Edinburgh Dispensatory. The now know that the Atch is owing entirely to a particular Species of small Insect called by Linnaus, acours. They are the same with those found in damaged flows and other damaged Estables. It is entirely cuticular and is to be cured by such Opplications as come in immediate Contact with these Vernier. Common Dock bruised or injused in Milk or Cream for 24 hours and applied externally is a domestic Medicine frequently employed for the Cure of this Disease and I have been absured that it seldom fails of Eucceps. Whether Ring Worms are owing to the same Course with the Iteh is doubtful. They may be as effectually cured by the same Course with the Iteh is doubtful. They may be as effectually cured by the same Course with the Steh is doubtful. They may be as effectually cured by

Radix Britannica, one of the Dock kind has been much recommended in the Scurvy, who wrote a Freative of the Virtues of the plant tells us that the army of the Emperor were in great danger of being lost entirely in Holland by the Scurvy and that the greatest part recovered by the use of this Remedy. M. Colden formerly Licutenant Jeneral of New York gives us an Instance of a Gentleman afflicted with an ill conditioned Mew in his Throat for which he had taken the advice of different Physicians to no purpose. Se was at lost perfectly cured by an Indian. Ne drank plentifully of an Infusion of the Radio Britannica and also used it as a gargle at it were serviceable in allill conditioned Mers and in those commonly called Cacaether of the Leas and other Parts of the Body. These Meers will often boffle the Efforts of the most Skillful Physicians. After they have been dismissed as incurable it often happens that some old Woman undertakes and even permorms a Eure. They generally employ for this purpose the Common Dock which they apply extermally as a Somentation to the past and at the same time make the patient drinks

drink plentifully of the Decoction of the Dock is possessed of a considerable are mony with its astringency. It acts not only by its astringent qualities giving some to the parts but also by its Stimulus it excites the action of the Wefels in the part I likewise increases the Evacuations, by Urine and principally by the Skin by which the too great determination to the Wheen is taken off. The Use of it should be persisted in for a considerable time.

Fillels on Hern kind were formerly much employed in Medicine but are now seldom used. The bilix Mas or the Male hern was recommended by Diascorides for the bure of Worms in the Dose of 36. I have accordingly in my different bourses of Lectures among the Unthelminities Medicine enumerated the sern tho' from its being never employed I concluded it we proselid of no considerable Cirtues. It has of late been again introduced into practice. Madame Neiffor had arguired great Reputation for any posed Specific she populated for the Course of the Tape Worm. The at last obtained a premium from from the King of Trance for the discovery of her Secret whis was found to be the Root of the Male Gern in powder. Thus has this obtained was found to be the Root of the Male Gern in powder. Thus has this obtained it is probable that Madame Neuffer or the person who discovered the Secret to be had learned it from some old neglected therbal.

Capillus Ceneris has been recommended on account of its peculiar Vin. tues and has been said to cure Consumptions; but it is now with propriety

totally neglected.

Lichen pyxidatus or bup Moss grows whom all barrens Rocks teller tains in Europe and America. I have set it down on the Authority of D. Willis a Man of great practical Knowledge, but on account of his explosion Theories less studied than he deserves. He recommends it in the Whopinglang a Disease in which he says a physician seldom, an old Boman ofter suncceeds. The Remedy which they generally make use of is the Cup Mos which is a simple Astringent without either smell on aste and on this are count we can make the Child take more readily a sufficient quantity of the of the peruvian Bark which is resommended in this Case by D. Burtow. Other Astringents have been also recommended. The Chin Cough was probably first imported from Usia to Africa as the Small pox and Measles were the Mose Disorders it attacks only those Children and pless ons who have never the Mose Disorders it attacks only those Children and pless ons who have never the

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Disease has become regular we may give the Back, or if the Child will not take a sufficient quantity of this, Cup Moss or any other Vegetable astringent may be used. If this Method does not succeed a Change of air becomes absolutely necessary and it has happened that the Disease has been sured by changing the air even to a worse one. All the unripe and naturally acerb Fruits may be reckoned as bringents. The Wirtues of all are nearly the same, we may therefore consult plus and breafiness.

Quena Sylvestris or Common Sloe is perhaps equal to any other. In best Method of preparing it is to make a Rob, like Elder Rob. In the Dysentery such Medicines may be employed with advantage as are moderately astringent and at the same time correct Mutrefaction. The Sloe proves highly serviceable in this disorder. By its astringency it restores some to the Intestines It likewise corrects and obviates the Sendency to putrefaction; and as all acerb druits are not so liable to a Termentation as any others they will prove less lacative. The Slow is on this account very resepul. An Impusion of the Leaves of the Slow has been re. commended as a gargle in spongy and relaxed gums and to fix loose Teeth also in the angina when it is owing to relaxation

Berberis. Berberry is a very excellent Fruit of a grateful astringent Taste It may be given either in Juice, Syrup or Jelly. It is particularly indicated in all Is orders owing to a putrescent or dissolved State of the Humours. Prosper alpinus an Italian Physician famous for many Works, particularly for one De præsagi. enda Vita et Morto" was cured of a malignant sever attended with a bilious Diarrhaa) when his Life was despaired of, by a plentiful Use of the Syrup of Berberies . Simon Pauli another physician was cured of a similar Disease by the same remedy. It is highly useful in all Fevers, in Dysenteries and in Cholera attended with Symptoms of Putresiency. Van Swieten from his own Experience recommends the inner Bank of the Treeas a powerful Hydro:

Success accide and Appocistis are Substances now scarcely known many Physicians even by Name. They are simple and pure Astringents popels no Virtues to render them preferable to any others.

Serras

Serral fahonicap. This is very improperly called an Earth. It is a Negetable inship ated frice prepared from the orient of the Areca halm tree. It is prepared by boiling the Fruit in Water and adding some Line to it, which gives it the red to a lour. The Liquor is poured off and the faces or those parts which fall to the Bot tom are dried and kept for use Its principal Use is in Laxity and resolution of the Guns. It is chewed by the french Gentry to give them an agreeable Breath It may be used in Diarrhoas and Dysenteries. It is a powerful Astringent of no Smell and rather of an agreeable vacte. Asto the Lose, it may be given in the quantity of 3j or 3fs in Substance or Solution.

Sanguis Draconis has at all times been considered as a howerful astringent and has been thought to be very serviceable in checking Hemorrhanges probably from its resembling Blood in Colour. It is possessed of no Astringency, and is totally insoluble in the Bluids of our System and therefore does not deserve to be considered as a Medicine. The only use I know of it, is to form the Memory of Helvetius as I mentioned before.

Hypericum was formerly much esteemed in Medicine and still continues in repute with the Oulgar, but is now totally banished from our prescriptions. From its vaste it appears to be an astringent. At contains a large quantity of a subtle essential Oil in small balls like those of the Rind of Oranges to the plant is said to be a powerful Diviretie. The Oil is said to have proved isoful in Epilep. tie and Maniac bases: I must confess I cannot account for its Operation in these bases.

Ly simachide De Haen a foures us that Claw Swieten and him selfex. perienced the good Effects of this in the Dysentery in the Dose of 3 morning and Evening. He says it cured a recent Dysentery in 3 days and an Old one in three Weeks. He used it principally in the Chronic Dysentery. With regard to the Use of Astringents in Dysenteries Physicians are not agreed. This difference of Opinion seems to have airsew from their confounding the Chronic and acute Dysen. terias together, which are very different Disorders. The Acute Dysentery is always attended with a Tover; the Chronic is not, the sometimes there is a symptoma. the Fover, but this is rarely the Chronic is not, the sometimes there is a symptoma. Week or a sorting ht and sometimes not volong. It is attended with great pain and wident Signs of putrescency. The two Disorders are to be breated in a very and evident Signs of putrescency. The two Disorders are to be breated in a very

different Manner. The acute is to be considered as a Selvis introversa as Sydenham terms it; and is to be treated as a putrid malignant Tever by anti septics, diluent and acid drinks, gentle Laxatives and anodynes at night. There is no Danger in giving anodynes in this Disorder which greatly relieve the pain and Senemus and cause a gentle Evacuation by the Skin which is of great service in this Disease To increase its diapshoretic Virtues we may com bine the anodyne with specae. or Sart. Ematic. for we shall find hereafter that Emeties combined with Opiates are the most powerful Sudorifies. I have seen Dysenteries cured by no other Medicines than an Anodyne at Might & some Laxative in the Morning. In the Chronic Dysentery we should likewise endea. vour to produce a determination of the Pluids to the Skin for without this all other attempts will be in vain. In this anodynes are hurtful as they weaken and relax the Intertines already, too much weakened. Gentle astringents combi ned with gentle purgatives are very serviceable by restoring the cone of the Inter. tines and evacuating the morbid Matter. Specacuanha alone in small Doses has been found of great Service. It has combined with its Emetic qualities a mani, fest astringency. In the acute Dysentery astringents are hurtful in the Chronic they are serviceable. In this manner we may in some measure reconcile the different and javing Opinions of Physicians on this head.

Plantago is a very weak Astringent. In Decostions the plantage has been em played in Hemorrhages and D. Clark formuly a physician of Eminenes at Edin burgh aboures us that he has seen Hemorrhages suppreped by this which would not a jeeld to seemingly more powerful Medicines. An Infusion of the Leaves has been recommended in the Micor albus. Colsus recommends a Decostion of the Leaves has Boyle tells us he has seen Consumptions cured by two spoonfuls of the extense of the plantain taken every Morning for two Months. I know not to what property to ascribe its Effects in this Case. In this Country the plantain taken every Morning for two Months. I know not to what property to ascribe its Effects in this Case. In this Country the plantain is used for the Bite of the Rattle Smake and other Serpents. With regard to the Bite of the Serpent, from all the Information I could get it appears that if the Bite is inflicted immediately into a Been so that the Poison is conveyed derectly into the Blood there are no Plopes of a Cure. But if it is inflicted into a museular part so that it must be taken up by the Absorbents before it can be mixed

mixed with the Blood there is no great danger and warm Formentations of all kinds and even Warm Elater alone will answer equally well. Drinking warm Signors of all kinds by keeping up a perspiration will also prove serviceable. The Sentiments of Me Carver, who remained a long time among the Indians, on this head are similar to those I have given you. The Danger consists entirely in the mixture of the Blood with the Vename. The poison of Superite taken into the Stomach broduces no fatal Effects. M. Chedi tells we that a number of Gentlement had next to make some Experiments on the Venom of the Viper and has for this purpose collected a quantity of it in a glafe. So the amazement of the Company, one of them drank off this Poison; but they were much more amazed when they found he suffered no Inconvenience from it. The people of Asia and I office whenever they are bitten by a Serbent apply immediately to some one to such the Wound, and the person who does this Office never feels any Inconvenience from it unless their is an Iller in the Mouth by which the poison may be readily conveyed into the Plood.

Jolygonatum. The Flowers Leaves, and Berries of this are of a very acrid and even poisonous Nature. The loot is remarkably mucilaginous with astringency. The Root has been used with Success in Hemorrhoidal Swellings and Bleedings. The Dove is Its boiled in a point of Milk untill one half is consumed and taken at onsein the Evening. With regard to the Use of do = tringents in Hemorrhoidal Dases; when they are critical Astringents are undoubtedly not proper. Some have even supposed that the Hemorohoids were a Critical Evacuation assowering the same End in Men as the Menses in Co. men. This is not however the base for we see as many if not more Ulanewaf. flicted with the Piles than Men; and some Women are even troubled with the file during the Flow of the Menses. When they are Critical or become habitual to the System they are to be considered as a newfray wil. But at their first ap. pearance they are certainly morbid. They are frequently occasioned by a habit of Costiveness by which the free return of the Blood to the Geart being prevented it is poured out into the Collular Membrane forming Eschymoses which are kept up by Saxity. Here, after we have removed the Costiveness astringents will be bery proper. When the Disease is become habitual it will be dange rous to check it, and therefore Astringents during or immediately before the

Evacuation will be hurtful; but even here I can see no great Inconvenience arising from a moderate Mese of astringents after the discharge has ceased to prevent its return

Semper VIVIIM or House leek is a moderate astringent combined with a Mucilaginous quality. Boerhaave says that of the expressed Juice draw at once will frequently cure a Dysentery. Boyle recommends it mixed with How mey in the Aptho in Children. It is said to be very useful in Inflammations of the Mouth and Fauces. A poultie of the Leaves is in great repute with the Vulgar for Burns and Scalds. The Expressed Juice in the Phil Trans. of Burns law is recommended to take Tilms off from the Eye. Apoultie of the Leaves is used for Corns. Acrid applications of all kinds are improper to Corns. We know nothing that will dispose the Cornto fall out.

Nettles when young are employed in Good. A strong decortion of these is said to cure the Diles. The Infusion of the Leaves is employed in Consumptions. The Juice has been recommended in Asmostor. From their remarkable property of existing Inflammation in any part upon which they are struck, they have been employed in Torpor and paralytic affections of the Limbs. Here they are by existing the animal theores into action and by producing a greater Dorivation of the Blood and nervous Influence into the Part. This is termed Urticatio. When we examine the plant carefully we find that it is covered with little sharp points which when struck against any Object break and a Fluid is at the same time powed out into the Wound which produces the Inflammation.

Was Wisi is a Species of Arbutus. This has of late been much recommended in balculous Concretions and other Disorders of the Ridneys and Bladder It was at first recommended by Sinnaus. After him several vials were made with it by De Haen in the public Hospital of Oceana, an Account of which he has given in his Ratio Medendi, to which I refund you. De Haen found that it does not dispolve the Stone, but mitigates the pain arising from it and enables the patient to retain his Urine and changes the bad state of this Placed. Inequently when it was fetid, purulent, acrid and so highly alkalescent as to change the Syrup of Violets green and to efferwesce with acids, by the Use of this Remedy it was brought back to its natural State and made to deposit a healthy Sediment Se

The says also that it cured all Suppurations of the Urinary Passages, whether of the Kidneys, Wreters, Bladder, Mrethra, Scrotum or perincum provided they were not Venereal; for in this base nothing but Mercury will succeed. It relieves the pain attending the stone, the it appears by sounding that it is not changed either in Size or Shape It is often serviceable when Litholomy, cannot be performed De Haen gives Us the Case of a gentleman of 80 years of age afflited with the Stone who was entirely relieved of all the Symptoms by the Use of this Remedy. He likewise gives a loase where the person was cut, but the Stone could not be extracted: by the use of the Uva Ursi the patient's Sife was rendered comfortable. The Method in which De Ha. en exhibited this Medicine you will see from the following base. a Lad of about 11 years of age was brought into the Aospital at Vienna, who for 4 years had been afflicted with intense pain in making Water, and during that Time had voided two Stones of the Size of a pea. Upon sounding, a Calculus was evidently felt. He was put upon the Use of the Wa Wesi of which he took 3/s morning & evening with an anadype at Night. In four days his Symptoms were greatly relieved in a month he was discharged quite fee from pain. He continued well for several months, but neglecting the Use of his Medicine and using improper Diet, he had a return of his Complaints and was brought into the Hospital a second time, here while every thing was preparing to perform the Operation, he took 3/s of the Was Ursi three times aday. In three days the pains were entirely gone off Upon sounding him the Calculus was evidently heard and felt. In a fortnight he was again discharged. He returned into the Hospital a third time and recourse was had to the Alva Mrsi, but as his pains were now more violent than they had Ever been before Linseed Oil was injected into his Bladder daily. After some days when his pains were abated the Sinseed Oil was omitted and the Uva Ursi in powder was given him daily. The State of the Urine was always changed upon using the Wa Ursi. I am induced to believe that the Symptoms altending the Stone are not owing to the size, weight, Shape to of the Stone but depend entirely on the State of the Wine. We prequently find persons afflicted with all the Symp. toms of the Stone when no Calculus can be found in the Kidneys or Bladder, and on the contrary we often upon Difection find balculi of considerable Magnitude in persons who during their Sifetime felt no Inconvenience. If the pain depend ded entirely upon the Stone, why should there in the latter base be no Inconver nuence

nience felt, or whence in the former do the pains arise? When the Urine is fetial purulent aired and alkaline, the Woa Ursi is often found very useful by bringing it back to its natural State. It acts probably by giving tone to the Secretory Organs and enabling them to secrete a Healthy Fluid. In all ages have astringents been recommended for the loure of the stone, and it is probable that Sime Water acts more by its astringency than by any power of dissolving the Stone. This appears evident in Mr. Walpole, who published an account of his own base. He was entirely freed from pain by the Use of the Sime Water. Upon Dissection after his Death, a con. siderable Calculus was found in his Bladder. I am well aware that it is said by some persons, that Sime Water gives to the Urine of those who drink it a power of disolving the Stone out of the Body. But the thine of Calculous patients will also do the same even the they do not drink Sime Water, and yet the Stone is not found disolved; and we are not rashly to conclude from Experiments made out of the Body that the same Effects will take place in the Body. From some &. periments lately made at Edinburgh it appears that when Wa Ursi was added to Urine in which was a Calculus, the Calculus was somewhat increased, but when the acid of Vitriol was added, the Stone was considerably diminished. I have seen the Was Ursi tried in 3 Cased. The first was a bhild afflited with a stone, the Uva Ursi was advised but was used without Success: The Stone was afterwards ex tracted by Sithotomy. The second was of a jentleman 80 years of age who has been troubled with several Mephritie Paroxysms, whether from a Calculus was not certain. As he had no desire to be convinced of so disagreeable a South, the only method of ascertaining this, Sounding, was not employed. He was advised to we the Uva Ursi in a strong Infusion. In 24 hours after he began the Use of the Um Ursi his pains were considerably, abated and he was convinced that it was of great Service to him. It did not however entirely, free him from his Complaint, but he continued subject to repeated attacks during the short remainder his Life. The third base was of a Gentleman of 24 years of age who had been broubled with nephritic paroxysms. The Wa Ursi was employed, but instead of mitigating it rather increased his pains. Thus in two bases out of three this Medicine proved quite ineffectual. Even De Haen's Case is ambiguous for we find that the Disorder was relieved soon after the patient came into the As. pital; a very strict Regimen no doubt, was observed and this certainly might contribute as much to the Celief which was afforded as the Medicine Cortes

Cortex Simarouba is the Bark of a tree growing in Guiarra; brought from thence to Europe in 1713. It was employed in France in 1718 for the bur of the Dysentery which was epidenic in that Kingdom. It excites a Mausea Vomi: ting and Diaphoresis. It is of use principally in Chronic Dysenteres. The Dose is Zij boiled in a Quart of Water untill 2/3 is consumed. The remainder is to be divided into four Doses, one of which is to be taken every two or three Hours. The Dose in frow devis 3/8. It is possessed of no Astringency, but its Virtues are owing entirely to its sudorific quality, by which it restores the Determination of the Me. When which we know to be of great Consequence in the Cure of the Dy. sentery. I have used it several times, particularly, in one Case in the Henney! vania Hospital. A Man had been afflicted with the Dysentery several Months and, different Man had been afflicted with the Dysentery several Months and, different eledicines had been prescribed by the different Physicians of that Institution to no Purpose I at last prescribed the Simarouba and in three or four Weeks he was perfectly relieved of his Disorder.

Fungus Melitensis is a Substance not known in our Shops. Linnous has written a Treatise whom it, in which he recommends it in Hemorrhages of all kinds, particularly those of the Uterus. It grows in the Island of Malta where a constant quard is kept over it, lest some person more attentive to his own than the public good should engrofs or destroy it. It was thought peculiar to this Island, but it has been found in Jamaica and D. Brown mentions it in his Natural History of that Island. It is recommended in all kinds of Stenorrhages from Zi to Zij for a Dose to be repeated at proper Interval until the Offert is produced.

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I have now finished the Consideration of particular astringents and shall in the next place mention some general verms comprehending those Substances which the not really Astringents may occasionally procesuch.

Acids applied to the Tongue contract and corrugate the Parts: they der forive the Lips of their red bolows. The Virtues of the fossile acids are similar and they differ only in the degree of Concentration. There is a difference between the Acids and Tossile acids. The Degetable acids are liable to ferment in the prima viow and to have their acid Mature changed before they enter in the Polood. The Tossile acids being incapable of Termentation and even the Blood. The Tossile acids being incapable of Termentation and even resisting

resisting that process are (incapable of Change) not liable to this Change. They a stimulate the Organs of Secretion by which they produce more copious exections. This the Degetable acids cannot do unless they are given in a very large quantity. There is also ad ference between the Degetable acids. The Mative have both the Vinous, and aretous to mentation to undergo, and are therefore more liable to be changed than the Term ted. The Tofsil acids are very proper in Hemorrhages especially when attended on Tever where the Tofsile astringents from their stimulus would prove hurtfully ing propersed of a Sedative Vintue, by which they diminish the Impetus of this ids and at the same time contrast the Tokids.

austere Wines act from their Acerbity. They are liable to the same Objetta with the native Regetable seids, as they have generally undergone the Dinouston mentation but imperfectly and have still the Acetous to go thro. By stewing them their Acerbity is removed and they are residered less liable to ferment. They are however rather to be considered as affording a convenient Dehillo Astringent Medicines than acting as such. When a Choice of Wines is to be me the Austere Wines are in some bases to be preferred. Thus in the Dysentery who we want a weak antiseptic Bluid, the red Wines are generally preferred, and with Propriety; but they do not here act as Astringents for when given in lay quantities they generally prove laxation.

Bitters when Evacuations depend on Relaxation by giving a temporary Tone to the Parts may act as astringents.

Sedatives may act as Astringents in stopping Evacuations, by diminionishing the Impetus of the Blood and by taking off Shason and Irritation when they are owing to these bouses.

Balsamics have been rechoned Astringents, from their Use in increase Discharges of the Virinary Papages as Gleets, Gonorrhoas Lo. When given Large Doses they prove Saxative, and when we come to treat of this Claft Medicines we shall find that they cannot with the least propriety be considered as Astringents. I concieve, in stopping Gleets to they art much in the same manner as Cantharides, by exciting an Inflammation in the Winnary Papages to which they have a natural Tendence; and thus producing a Constriction of the relaxed Glands.

Exsiccants

Exsissants have been confounded with astringents. They are not however by) any Means astringent. By the Term Exsicoants we mean such Substances as absorb Moisture, for this purpose every dry insipid how der may be employed! Dowders of Chalk, Boles, Blays are generally used. Oatmeal perhaps will. answer much better than any of them. Exsistants may be employed when the perspiration is so increased as to become disagreeable. Here it would be impro. per and even dangerous to check the Evacuation by astringents, but Exsis = cants will remove the Disagreeable ness without obstructing the Bershiration. They are also employed in Erypipela an affection of the Kete Mucosum. Here they do not act as astringents but by absorbing the acrid Mucus which would otherwise cause the Disease to spread over the neighbouring parts. When the Disorder is confined to the Extremities there is not much danger to be apprehended; but when it attacks the Head, Face or Breast it is oftentimes highly dangerous. In it repellants are not to be used, lest they should throw the Disease on some of the Oisera and couse it to prove fatal. We may employ Exsistant with advantage to absorb the Moisture and Outmeal is to be preferred as it is not so apt to form bruists as the powders of Chalk, Boles to It should be applied upon a bloth. We have now finished the Consideration of astringent and will in the next place take a short review of what has been said on that subject in the preceeding Lectures.

Whe defined Astringents to be such Substances as increase the bo.
hesion of the Fibres of our Bodies. We observed that their principal action was upon the Nervous System, by which their Effects were much sooned produced to much farther extended than could possibly happen by means of the bireulation. We found that Astringents were indicated. It In laxity of the simple Solids, if this may be called a Disease: this and Rigidity are generally Constitutional and out of the reach of Medicines, the diet and Exercise may have some influence in changing them. The greatest Streps was laid upon Laxity and Rigidity when every thing was attempted to be explained on Ma. Thematical Principles. Boerhaave improved the Theory, and it continued a long time in Roque. The Mervous by stem which may be called the Soul of the Machine was entirely neglected. Since we have begun to Study the

Laws of the animal Oconomy, with accuracy we find that Laxity and Rigidity, are of very little consequence and may be entirely neglected. The only morbid Cases of Laxity which occur to me at present are 1st From the too long continued applications of smollients to any part. 2nd In the Rickets where the Bones are found to be disolved. 3 the Where the part have been overstretched and the Tone destroyed This is illustrated in batgut and other Elastic Substances, which be ing extended beyond their clasticity will not contract to their former length when let go. 4the In Debility of the moving Tibres. This often occurs and may be broughton as well in a moment as in a Month or year. 5. In increased action of the Solids when owing to Irritatility or Mobility of the System. 6 In increased & vacuations of Blood. The Causes of these may be referred under three heads. It Debility and Relacation. 200 Mobility and Irretation 300 Increased action of the Heart and arteries. In the two former bases astringents are proper in the last hurtful. We should always employ the least stimulating Astringents in Demon. hages, as alum in Substance or alum Whey, which will often prove effectual who no other Remedy will. When we use Astringents to check Hemorrhages that are dangerous we should employ the strong fossile astringents; when to prevent the return of Temorrhages the weak Regetable astringents are most proper in small Doses. T. In Allens when we wish to bring on that gradual Degree of Inflam. mation which is necessary for the formation of good pus. From their Virtues in her ling Wounds they were termed Oulnerary by the antients as they thought them ho deficity as well as Strength of the Nefsels. In the former base the Nefsels not pro. helling the Blood with sufficient Vigouvit stagnates and produces Inflammation on on the latter base the Blood is propelled into Repels not materally acco. modated to recise it. Inflammation produced in these two different Methods is to be treated in a very opposite Manner. For instance, Inplasmmation in the Eyes is to be treated in a very different Manner in the young and vigorous to the Old and debilitated. In the latter astringents are very proper, in the former they are hurtful. Inflammation in the young and vigorous tends to suppurate on in the Old to Jangrene. This gives no the Reason why the peripreumony's generally, fatal in Old people & requires a different treatment from that of young people.

As the stopping of Hemorrhages bears so considerable a Share in the Use of astingents we shall here treat of Hemorrhages.

By the verm Hemorrhage we mean an Evacuation of pure Blood from the Welsels of the living Body. D. Stahl and his Followers, whom I mentioned former. by as the best loriters on this subject have very properly divided Hemorrhages into the active and passive. The passive are always owing to some external back producing a lupture or laceration of the Wessels and more properly comes under the Moties of Surgery. The active are produced without any external Cause solely from the increased action of the Vessels. This increased action is owing to some internal bouse. The active are divided into the Ordinary and Extraordi nary. The Ordinary are when Blood flows from a parturally subject to the. morrhages, as the Mose, Lungs, Uterus to. The Extraordinary when Blood flows from a part from which it does not usually if one, as the internal angle of the Eye, Tip of the Linger and such other unusual places. The active are also divided into the natural and preternatural. The active, Ordinary and natural occur only in Fernales and are absolutely necessary to their enjoying a sound State of Realth. These are the Menses and Sochia which are never called Aemorrhages unless they are immoderate. The active Ordinary preternatural are always morbid affections and deserve accurate attention. Hemorrhages acquire different Mames according to the parts from which they if sue. Thus it is called The moptoe when it issues from the Sungs; Comities bruentus or Hamatemesis when from the Stomach; Hamorrhois from the Hamorrhoidal Vefsels; Miches Coventies or Hamaturia from the Urinary Palsages, and Menorrhagia Gravidarum when from the Alterus during pregnancy).

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Persons of a sanguineous Temperament, which is known by a florid bown tenance, smooth Skin, a shining Redness of the Sips and Corners of the Eyes & pale Hair generally inclining to red, are very subject to themorrhages, especially from the Sungs, and hence they frequently die of Consumptions. Persons of a Sanguineous, Melancholie Temperament, which is known by a paleness of the Countenance fullness and Distension of the Deins on the Surface of the Body and Countenance fullness and Distension of the Deins on the Surface of the Body and Pair inclining to Black, are also subject to Hemorrhages. Persons likewise who lead an indolent Life are frequently troubled with them. Such persons also as are troubled with watery Exudations and Eruptions on the Read when young are

are often sieged with Hemorrhages when Old. Particular Seasons of the year contin bute to Hemorrhages. They are most prequent about the Vernal and autumnal Equi. noxed. Hemorrhages happen at every priod of Life: this is an Observation as old as Dipportates Celous and many others since him confirm it. They flow however from different parts at different times of Sife, and even the Sea makes some Difference Thus Boys are more oulyest than first to bleeding at the Mose, which seldom ap pears before the 12 or 13th year. A amoptor more frequently attacks Men than Women. It generally appears from the 10th to the 35th year. It seldom appears after the 35th year, and a person who has passed this period of his Sife without being attacked with a shitting of Blood or any symptoms of Consumption may be thought safe from these Disorders. It is true a Spitting of Blood and Con. sumption do make their first appearance after this period sometimes; but then it is owing to some extraordinary bircumstance. Homatemeris or Comitings Blood more frequently occurs in Women It sometimes arises from a supportion of the Menses. This however is not always the base, for it sometimes appears who there is no Obstruction of the Menses, and even during the Time they are flow. ing. Pregnant Women aw sometimes seized with a Comiting of Blood. The Hamorrhoids or Piles seldom appear before the first Vigous of the Body is gow off They in general make their first appearance not till after the 36th year. as a Melancholic Temperament conduces to Homorrhages and frequently brings on the piles, Men, being in general of a more serious turn of Mind than Women, are more liable to this Evacuation. Women are sometimes subject to the piles during pregnancy. This is owing to the Gravid Atteres compressing the abdominal lin and preventing the free return of Blood to the Geart thro' them. Of all the as. live Homorrhages, the Mictus Couentus or Hamaturia is least frequent. It never attacks Women and seldom Men before the 36th year or Grand Climas. terie. When it is owing to external Violence as Calculi in the Urinary, papages it is to be considered as a Pajoine Hamorrhage. Women are sometimes du. ring pregnancy, subject to a Hamorrhage from the Uterus. This is called Me. norrhagia gravidarum which we shall consider more particularly here after.

A Hamorrhage sometimes comes on suddenly, but in general it is preceeded by the following Symptoms. - There is a Sense of Fullness

Tension and sometimes pain in the part from which the Damorrhage is to ifsue, a diminution of the Natural Excretions hence Costeveness, pale Limpid Urine, a dry Skin with evident signs of diminished perspiration, and if the person has any Ulurs they become palled and discharge little or no pus. a Sapitude and aversion to Motion, a Coldness of the Extremities, Wind and Borborygmi in the Intestines, frightful Dreams during Sleep, a great anxiety, a Sense of Chillness or what is commonly called Horripilatio, Mains in the Back and Loins and a dimne food Sight. The Countenance becomes hale, there is an in. crease of Thirst and Heat and a quick strong pulse. The Tension is increased untill the Hamorrhage breaks forth. Upon the besation of the Hamorrhage the Symptoms remit. A amorrhages frequently become periodical, and return sometimes after an Interval of a Day, sometimes of a Month, some. times of a Year, and there are Instances of their returning even at longer periods. The predisposing Causes of Remorrhages are various. as Hamorcha ges sometimes come on suddenly and at other times are presented by the Symptoms above enumerated, we may in general the antecedent bauses to 2 heads: I Such things as suddenly increase the Circulation as violent bodily Exercise, strong Imprepions upon the Mind or whom the Organs of Sense immediately communicating with the Sensorium Commune as gust Light, great Noise; Violent Massions of the Mind as anger; external Heat, the hot Sit of a Frever; all these have been known to bring on Hamorrhages. 2nd Atopical Plethora; that this preceeds almost every Acmorrhage is known from the vension and Fullness. It is owing to a bongestion of the Depels, and this may be brought on by a general plethora of the System.

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The bauses of general Plethora may be referred to three Heads. It it is owing to an increase of Nourishment while the Evacuations continue the same In this base that Equilibrium which ought to be kept up between what is taken in and what is discharged from the Body is destroyed. For more is taken in than is carried off. To this head we may refer an Indolent Life accompanied with a large quantity of animal Food. Secondly. Plethora is produced by a Diminution of the Excretions while

the Mourishment is the same. Under the former head the Quantity here the quality of the aliment is rather to be considered. Thus animal Good being less perspirable will be apt to occasion plethora than the same quantity of Wegetable Good. Oysters and Fish of all kinds being least alkalescent and least perspirable will most readily occasion it. The Lesh of young animalsal so will be more apt to produce plethora than that offull grown. a want of Exercise may also be referred under this Mead, for without this the Fluidow not driver on with Sufficient Strength and hence Congestions are formedin the Depels and the perspiration checked. The Moisture of the Ulmosphere che ing the persperation may likewise be considered as a Course under this Head Thirdly. a Suppression of the usual Evacuations. To this may be referred an advanced period of Sife; for then in Women we find the Menses are suppressed and in Men the Evacuation by the Skin. a plethora is often produced by a Diminution of the Body, as the loss of a Limb, for in this base the Blood that was formerly carried to the part is carried into others. I partial plethora may be produced independant of a general plethora from an increased Distribution of the Fluids to a particular part. This may be owing to various Caused. 1º It may depend whom the Growth of the Body. Thus in young persons before publity we observe Homorrhages most frequently fromthe Nose arising from the Head clasing to grow while the same quantity of Blin is still recieved into it. When they approach to their deme, as the Mefsels give more resistance to the Blood a greater quartity will be carried to the Lungs which are least able to make resistance and hence Hamoptoe is mo common at this period. In the young the arteriores in the Old the Venous plethora takes place. This arises from the different Strength of the Welsels at different periods of Life. Do Wintringham has observed that in your animals, the arteries are weak and law, but when the animal grows older they become more rigid and are endued with greater Strength and him propel the soluids into the Veins. Genee it is that Old people are more out. ject to the piles. In Old people the Discharge by the Skin is in a man ner totally suppressed and the Fluids are carried in greater quantities to the Kidneys, hence the Discharge by Wrine is increased in Old people

and they are frequently afflicted with a Rematiria. 2. The Situation and Conformation of the Body may occasion an increased Distribution of the Fluids to a particular part. Thus a wrong Conformation of the Thorax which is known by high shoulders, a long thin Mech, a flat and narrow Chest is often attended with Congestions in the Lungs and hence Hamoptoe is very frequently found in persons of this Shape. Here the Lungs are smaller than they ought to be and the same quantity of Thuids is car. ried thro then inagiven time as thro all the rest of the Body, Congestions will be readily formed. a Sedentary Life has been known to bring on the piles. Here the Circulation thro the Veins of the abdomen is not carried on with sufficient strength and hence Congestions are formed about the I nus. A Debility of a particular part will tend very much to produce bon gestions in that part and Consequent Hamorrhages; for as the Repels are weak and lax they will not be able to resist the Impetus of the The ids, and a greater quantity of these will be carried into it. Hoffman very properly reckons an Ottonia of the Rectum among the Oceasional Can. ses of the Piles. 3. Local or partial Stimuli derive a greater quantity of blinds into the part to which they are applied than it naturally recieves. Under this Head Calculi in the Urinary papages may be men. tioned. These we have already said produce Homateirea, by lacerating the Vefels, but they also produce this discharge only by deriving a great ter quantity of Fluids into these parts. It is of some use to distinguish between these two bases, which may in general be done by attending to the Symptoms preceeding the Hamorrhage. In the latter Case hardened Faces in the rectum acting as a Stimulus often produce the piles. He morrhages from the Attenes are sometimes occasioned after Birth by part of the placenta remaining and acting as a Stimulus. 4thly particular Substances taken into the Body, which have a particular vendency to any parts or Viscera will produce a Congestion in that part and consequent Hamorrhage. Thus aloetics frequently produce the piles Strong acried Dureties as Surpentine and Canthasides often bring on bloody/

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bloody Wrine and a discharge of Blood from the Uterus during Preg. nancy and consequent abortion. This they do merely by Irritation in the Urinary papages being communicated to the neighbouring Uteus and not from any specific power as is commonly supposed. Emetis will often produce a Comiting of Blood when strong and frequently repeat ted. 5the The increased action of any particular part will produced greater Determination of Blood to that part. Thus we find Hamopton is frequently produced after violent Exertions of the Lungs in Declaiming, singing, to. Women who copulate too freely with Men are often af. flited with Hamaturia. 6thly Suppressions of the usual Evacuations will produce a greater Determination of Theirds to particular parts. Hem Hamorrhages are frequently produced by checking the pespiration by astrong ent applications and from suppressing I sues. It has been commonly thought that the Hamorrhage in this Case was owing to the Heids which were for. merly evacuated at the I four for Instance being carried to some other pas and producing a Congestion there, but we often find the quantity of Matter discharged by an elsue in 24 hours is so small that it can have little 9. fect in this Way. We must therefore account for it from the Equilibrium which is so necessary to our Body being destroyed by the Suppression of the Evacuation. They Whatever prevents the free Return of the Blead throthe Veins of the part may cause bongestion by producing an increased Determi, nation of Fluids to some particular part. Thus hardened Fraces in the Vectum compressing the Deins often produce the piles. In this way we account for the Hamorrhages in different parts arising from a schirrous Spleen oration They Infarctions of the Viscera by preventing thosame quantity of Fluids to be carried the parts affected as are naturally carried there, will occasion les gurgitation, the Equilibrium in the Distribution of the Fluids will be destroyed and hence an increased distribution to some particular part will be occasioned. They and lastly Spasmodic Constriction of any part particularly of the Extremities will often produce an increased Determina. tion of Theids to a particular part. Whatever excites Spasmo therefore in may occasion Homorrhages as Coldand Moisture of the atmosphere. Dis. Distressing

Distressing Sensations of the Mind which we know excete Spasm, as Sorrow frief, Lear the often occasion the piles.

Slabit has a great Share in continuing Hamorrhages. How this happens isto us a Mystery, but we know that Slabit has a great Influence whom many

Disorders as well as these.

We now come to the proximate Cause of Hemorhages. Ale morrhage is produced by a rupture of Repels or their anastomoses. This Rup, two may be occasioned: 1sty an increased Circulation. Intelly a topical plethora can produce the Symptoms preceding Remorrhage is difficult to determine. all that I can advance upon this Head is but a Conjecture. It is of no great Consequences whether it is true or false as it does not interpres with Facts and it will serve at least to show that when physicians agree in Facts their Speculations are at least farmles. The fines a Web is shun, the more easily is it broken, and there is their when Mature percises any part to be oppressed with an over fra portion of Fluids she will end savour to remedy this and to remove it, and if she fails in her attempt the Hamorrhage will certainly ensure. We now are to say a few Words on the butte of Plamorrhages.

This must in general be adapted to the Cause producing the Hamorrhage Independent of the Cause, the Cure of Homorrhages turns upon three points on

Indications. We are

from the part. The first part of this Indication is answered by the antiphlogistic method, which consists in Bleeding, gentle Saxatives, cooling Drinks,
a thin share Diet bold air, an absence from Light and Moise and from
every thing which excites the Mind into action. For diverting the Blood from
the part we may make use of Diaphoreties combined with Opium. Draught
of bold Water, on Water impregnated with acids, flysters of pure bold water
Blesters, bupping, Milk Warm pedilwira will all tend to divert the Blood
from the part.

2nd To give Constriction to the ruptured Defsels, and

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3rd To prevent the return of the Hamorrhage.

For both these purposes astringents are commonly employed. These as we said be fore are either Topile or Negetable. As the Tropile are more sudden and strong in their Operation than the Regetable, they are chiefly to be relied upon in any Emergency . Those most commonly used are the preparations of Lead , Iron and alum. Alum Whey Dr Whyte found would stop Hamorrhages ofthe Uterus when they would yield to no other Remedy. When a Hamorrhage is owing to the increased action of the Heart and arteries, astringents should not be employed untill their action is diminished. When it is owing to be. laxation and Irritation, astringents are properly employed. When it is owing to Irritation or Irritability we should combine Opium with our astringent, Gold may act as an astringent in external topical Applications. Thus blots dipped in bold Water or Vinegar and applied to the Torehead or private hast will often stop a Hamorrhage from the Mose. Astringents are also verviceablein external applications. Thus an Injurion of Oak Bark or of perui an Bark is employed with advantage to check an immoderate discharge of the piles. To prevent the Return of Romorrhages patients should carefully avoid the occasional Causes. Bleeding has been recommended but it should always be in small Quantities. Topical Bleeding may be very serviceable. To preventthe Return we should also use the weaker vegetable astringents in small Dojes.

The following articles come under the Chaps of astringents, but appearte have been omitted in their proper place . To)

Cortex Granatorum & Querce are strong and simple astringents. asth Oak Bark is strong and at the same time easily procured we may use it ince. ternal applications as in the procedentia and in Children: We should always apply it cold for when used warm it will relax as much by its Warmth on the one hand as the Medicine will brace and astringe on the other. an Infusion of Domegranate Flowers gives us an agreeable Gargle in relax ations of the Would.

Logwood is a weak astringent, in soluble in our fluids either in Dear tion or extract. It is in many respects much Inferior to other actingents, how it is entirely neglected.

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We are in the next place to treat of Emollients.

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These are such Substances as relax the Rigidity of the Solids, diminish their Cohesion and introduce a larger quantity, of Fluid or Moisture. Hence they, are indicated in Scaness, Dryness, and Contraction and other Cases of this king, and in Rigidity either of the simple Solids or moving Fibres. All Substances containing Water, Oil or Musilage are Emollients: It is not of much Consequence which we employ. Warm Water will answer every Indication of Emol-lients. We are therefore to treat of the Hot Bath.

Hot Bath. The Effects of this are not simply emollient; it is also intispasmodic and under some bircumstances may prove stimulant. We shall conside its Effects in each of these ways.

The Use of the Warm Bath was introduced in the earliest Periods in Warm Countries where they are not only agreeable but necessary, In Greece and Come it was so much employed as to become one of the most fashionable Vexpensive Articles of Suxury. Their Physicians employed it for the preservation from and cure of many Disorders. In the warmer Climate, where it is so necessary, that the perspiration should be kept up, the daily use of it is attended with considerable Advantage. Whether it will be productive of equally good Effects in the Colder Countries is doubtful. It will not perhaps answer so well as in the Warmer Climates: but in these there is no doubt but that it may be employed with considerable Advantages as a Medicine.

We are first to consider its Effects and the Manner of its Operation and thence to infer its Mility in different Diseases. By, a Hot Bath or Balneum, physicians generally mean a total submersion of the Body in Warm Water. We are not to consider it in this limited Sense only but are to extend it to the external Application of Warm Water to the Body, Whether by Submersion, Affection, pediluvia, Fromentation, Wapour or Steams applied to the Body.

Baths may be made of two kinds of Water, Simple or Impregnated and their Effects have been considered as different. We shall first treat of the Effects of Simple Water by which you will be enabled to understand those

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the Impregnated and indeed the Effects of these differ very inconsiderably from those of the simple and we find that in those Cases when impregnated "water her been particularly recommended Simple Water will answer equally well, provided there is the same Seat. The Effects of the hot Bath depend upon Heat and Moisture. We shall first consider the Effects of these seperately.

Water applied to the Skin dipolues the Mucus with which that part is no twially supplied and washes off all Uncleanlines adhering to it. It opens and distends the pores, increases the perspiration and hence prevents all diseases ari. sing from its Obstruction. It takes off the acrimony from the Skin which is often the Cause of this Disease. These Effects may be produced by Waterin. dependant of Heat, but is evident they must be more considerable from Warm Than from bold Water . Its Effects however are not confined to the Surface of the Body, it peretrates the Scarf Skin or Cuticle and relaxes the Newes and Mervous Expansions underit. By Sympathy then Effects are extended over the whole Body, It has been supposed even to penetrate the Skin and Muscles and torelas the Sigaments of the articulations: But we can percieve no poves by which it can penetrate the Skin, and even supposing it could pass this, it is not probable that it could penetrate the Collelan Mem. brane extended under this almost all over the Body and replete with hat the can percieve no Repels on the Skin but the exhalants and inhalants or absor bents. It may be taken up by the absorbents and carried into the elystem and there exert its relaxing Qualities, but we see these Effects are produced in a very different Manner from what was supposed. By passing the Sympshatiest delutes the Thuids washes away arimony in the Lymphatic Glands and prevent Obstructions from being formed in these parts. That the Water is taken up by the Lymphatics is proved by a lease related by Dr Simson Profesor of Aldi: cine in the University of St. Andrews in Scotland. a young Man in a how attended with a Diarrhow, altho' labouring under great Thirst, either would or could take no Drink. A warm pediluvium was ordered. This thirst was removed and a short time after he had taken his heet out of the Water he had a liquid Stool little more coloured than the Water of the Bath.

The Effects of Heat are very considerable upon the living Body! Then Effects

are proportioned to the Degree of Heat employed. The common Heat of Baths is from 80 to 100 Degrees of Fahrenheits Thermometer. If the Heat is below 80° no considerable Effects can be produced, if above 112. it cannot be continued for any length of Sime without occasioning pain. Heat rarifies and expands the Hubs and mollefies the Solids. When a Degree of Heat greater than that of the atmos ophere but lef than that of our Bodies is applied to it, it produces an agreeable Sensation. It relaxes the Caticle and Nerves expanded under it, it increases Their Sensibility and by Sympathy these Effects are extended over the whole Sys. tem. But if a degree of Heat greater than that of our Body, or even lesif it is continued for a considerable length of time, proves a powerful Stimulus. Some Animals become torfied and even dead when the Temperature of the air is not above a cortain Degree of Heat and they, may be recovered by applying a greater Degree of Heat. We may from this and many other Circumstances inforthat the Mobility of the Newous power depends in a great Measure upon Heat and that Heat is the principal Stimules of the Animal Body. after a person has remained some time in the Hot Bath, we find the Veins whom the Surface of the Body become turned, this is owing to the Heat expanding the Fluids and relaxing the Solids. It is also owing to the Stimulant Effects of the Hot Water determining a greater quantity of Fluids into the Veins.

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We are now to speak of the Diseases in which the Hot Bath is useful 1st By deterging and preventing Senton, by wasing away acimony and relaxing the Skin it takes off Obstructions and prevents Congestions being formed thus. Hence it is serviceable in all Disorders of the Skin.

Asit increases the insensible Perspiration it will prevent and remove Dis. eases arising from an obstructed Perspiration. I have repeatedly mentioned, that Diarrhoas and Dysenteries, Comiting, Colies to are frequently if not always owing to this Cause. The Hot Bath is of great Sorvice in them Disorders. Many Diseases the not owing to obstructed Perspiration are yet kept up by this at will prove serviceable in these by keeping up and promoting this Discharge. It is on this principle that it proves useful in Disorders arising from a vitiated State of the Humours, as the Source, which probably might be pre-

prevented by the daily, Use of the Warm Bath.

Many Disordus are owing to foreign Matters taken into the System, which are again to be expelled by some Exerctions. The Warm Bath by Reeping up the per spiration will carry off these Measmata Itence it proves very perviseable in all Contagious Diseases, as the Syphilis or Sues Venerea. This Disorder the disease to be cured by the Warm Bath alone, yet it is much sooner cured by other Remedies when the Warm Bath is daily employed alence it is very easily and in warm Climates and we succeed best in the warmer Seasons. Although that he warm blimates and we succeed best in the warmer Seasons. Although the Warm Bath produces those good Effects, it is attended with this Disorders arising for it renders the Body mon susceptible of bold and the Disorders arising for it. Stone its daily Use is much more proper in the Warm than in the bold it. I lence its daily Use is much more proper in the Warm than in the bold. Bathing Galen who practised in a Warm Country, presidently observed that after Bathing the bold is to be carefully avoided.

300 The Warm Bath takes off all Obstructions in the Skin and Cutile and is therefore useful in phlegmons and all kinds of Inflammations, if we except on the Engliphelas which is attended with an exudation of an acrid Mucus by which it is extended. This is to be treated with dry rather than moist applies. tions as we mentioned when treating of Exsicrants.

4th By increasing the Circulation of the Blood and promoting the Influx of the Mervous power it proves serviceable in Atrophy, or a general Wasting On these accounts also it will be of use in partial palsies and even in an Atamiplegia.

Jeth from its stimulant Effects and increasing the Circulation it proves hut. ful in the deeper seated enflammations, and hence we see why warm to: mentations so often increase the Cheumatism.

6th It extends its Effects over the whole System. The Warm Bath often proved serviceable in Rigid Tendons and Sigaments and in Contractions. Here it acts by its relaxing qualities. It often proves highly useful in Contractions of the Tingers and soes, by promoting the Influx of the Mervous power into the Extensor Muscles and enabling them to overcome the rigid Here ors. From promoting the Mervous Influx, The Warm Bath often proved ons.

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useful in the Chronic Rheumatism, which is frequently owing to Debility of the Museles in the part affected.

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Ith Imentioned formerly that the Consent of the Stomach was greater with no part than with the Surface of the Body. The Warm Bath therefore frequents. by takes off spasmodic Constrictions of the abdomen, particularly the Colic. In this Disorder when all other Remedies fail the Warm Bath proves the first of Medicines and will give relief if this is to be prosured by Medicino. as there is a considerable Consent between the Skin and the Ridneys the Warm (Bath proves very serviceable in removing Spasm in these Organs. Oftentimes a Stone is dotained in the Unders by Spasm and causing great pain there, the Spasm is further increased. The Warm Bath by taking off this Spasm proves a most efficiences Medicines promotes the expulsion of the stone into the Bladder and thus relieves the pain. From its antispas modis Virtues the Warm Bath proves a most efficacious Medicine in the Aysteric and Hypochondriae Diseases. These are generally attended with Spasms of the alimentary Canal for which we have found the Warm Bath to be very seen weable It indeed mitigates Spasme in every, part Its Effects are not confined to the Muscular parts of our Body they are extended also to the Vascular Dysa

8th It is also used in Fevers. We shall next treat of its Utility in these bar ses. It was much employed by the Ancients in the Cours of Fevers. A: mongst the Moderns D. Gilchrist strongly recommends it and gives a Number of Cases, armeted to a Treatise on the Use of Sea Voyages in the Cours of Consumptions, in which it was employed with surprising advantages It proves poroutifully emollient and highly antispasmodic. It increases the insensible perspiration. It takes of Spasm, renders the Circulation equable and causes a Derivation of the Pluids from the Head. It causes Drowsiness and disposes to Sleep. Part of the Water being taken up by the Absorbents, it will act both as a dilu-

Pediluvia prove very serviceable in Fevers where there is a topical affection of the Brain with a Delirium and Subsultus Tendinum. They also prove very serviceable where there is a Coldness of the Feet. This they relive by increasing the Circulation, determining a greater quantity of Blow into

into them and heeping up a gentle perspiration In Tevers sometimes per sons void a large quantity of pale limped Wrine. This is generally a Sign of approaching Delinium. This Symptom may be relieved and the Deli. rium prevented by bathing the Feet in Warm Water. In this base it has been common to cut up animals alive and apply them to the soles of the feet They art upon the same principle as the Warm Water, and we ought always to give it the preference as it can be more readily procured and its Effects are more certain. This practice also savours of bruetty and will therefore be disagreeable to most patients and from hence ought deservedly to be rejected. The Hot Bath is not to be used indiscriminately in all kinds of Fevers. It is hurtful in all kinds of Inflammatory Devers and Tevers attended with topical Inflam mation as it proves a Stimulus under certain bircumstances. The Warm Bath is principally useful in Fevers that are owing to or are attended with Debility . It is particularly useful in Nervous Fevers and such Levers as de. pend upon Universal Spasm. Vid. Gilchrists Case of a Woman in a hever after Child bearing

It is principally useful in Merwous Fevers where we want a moderate Stimulus combined with an antispasmodie. Women after Child bearing are often extremely restless and can get no sleep In this base Opium is general by employ a better Medicine; but in some bases Opium instead of relei. ving, increases the Complaint and here the Warm Bath generally succeeds. The difficulty of applying the Warm Bath proves a great Obstacle to its un It is generally applied to the lower Extremities and with propriety, both for Convenience and advantage for the Spasm is generally strongest in the het as they are the most remote from the Heart. It may also be applied with more safety to the Feet than to any other part. We oftentimes cannot employ food. luvia as our patients cannot be moved in this base we must use formenter tions. The Method which I generally a dirse is as follows. all the Bed lines being removed, the patient is to be laid on a Blanket, and is to be covered with one two or more Blankets according to the Temperature of the Div. Two small Blankets are to be at Hand. WBlanket is to be wrapped closely about the patients Meck to confine the Heat. One of the small

Blankets is to be dipped in Warm Water and with it the patient's Feet Logs & Thighs are to be formented. Wheny Blanket becomes cold, the other small Blanket is to be applied in the same Manner and in this Way we may continue the Tomentation for half an hour an hour or even longer without putting the par

As Warm pediluvia cause a Derivation from the Head, they are employed to preserve the Face in the Small Pox. Care should be taken not to let our patient sit too long in the Water lest by its Stimulus it should raise the pulse and quit en the Circulation and this prove the Means of producing a more plentiful Eruption. The patient should also carefully avoid keeping his Face over the Buck ct or over the Repel in which the Wateries contained lest the Wapour from the Wa. ter should relax that Part and produce a more plentiful Eruption than would

otherwise appear.

By relaxing and taking off the Rigidity and Tension of the part to which it is applied the Warm Bath will communicate its Effects to those parts which sym pathize with it. Hence Warm pediluvia appear to be proper in bases of obstrue ted Menses and we find they are employed with success in this base and like. wise to bring on a Discharge of the files when they are supprefsed. As the Warm Bath by its Stimulus determines a greater quantity of Blood to flow to the Part to which it is applied and will take it off from other parts. When there is too great a Determination of Blood to the Read, Warm pediluvia will take off this Determination and direct it to the Best and hence proves serviceable in De. livium, apoplery, Sethargy be Many however have objected to their use in these bases on account of their stimulus. This is a weak Objection for the stimulant Effects are in general Confined to the Part to which the Bath is applied and when applied to the sect the Stimulant Effects are never extended over the System.

as some part of the Water is absorbed it will hafe the Symphatic Defsels and Glands wash away Acrimony dilute Visitity, take off all Obstructions & clean the Glands. By a Bath made of Broth or other nourishing Substances Persons have been kept alive in bases when Deglutetion has been obstructed.

The Warm Bath has of late been introduced into much more general Uso than formerly. The abbe Dauterothe a gentleman of a truly philosophies Disposition in his Travels to Siberia, observed that the Inhabitants in that bold Country made considerable Use of the Warm Bath, for the Gure of all Disorder arising from obstructed Berspiration, and with great Suces, and that the Degue of Heat was so great as to appear almost incredible, beyond what more civiliza Nations had any Idea of. This put the Siterati in France whow making & periments to determine the Degree of Heat which the Auman Frame was a pable of bearing. In hordyce and Dr. Blagden at Sondon found that they could remain in a Room heated to 210. of Fahrenheits Thermometer for Mi. nutes without any bad bonsequences following and that even 260, might be submitted to with tolerable Ease. In this Heat Eggs are roasted and ally Stake in 40 Minutes was not only drefsed but dried. These Observations of us, that our Frame contrary to the recieved Opinion of Boerhaave and other can sustain a much greater degree of Heat than that which it generally by sopes. They have also lead to many curious speculations concerning the ani mal Conomy and have given rise to an Opinion that our System has a hower of generating bold to Sociate the Effects of external Heat as well as of generating Deat to obviate the effects of external Cold. Besides Speculation these Observations have been of great skrives in the practice of John sie By applying so great a degree of Heat as we see can be employed without any Disadvantage many Disorders willyield more readily than they would do formerly. It is probable that the Cure of all Disorders arising from ob. structed Perspiration, the Scrophula and Lues Venerea will be more readi. by cured than they formerly were. Two Observations which I am now to make, the they are not immediately connected with the Warm Bath, yet natural. by enough arise from what has been said on that head.

The first proves the great Quantity of Water that the absorbents take up who there is a Want of Moisture or Fluid in the System: Some unfortunate Seams who were necessitated to take to their long Boat as their last Resource were almost dying for Want of Water, when either by accident or design they threw themselves into the Sea to bathe and they found that their almost in sufficient

insufferable Sensation of thirst was quickly removed and that the Evacuation of Unine was increased. They had recourse to this Method several times afterwards and always with the same success. D. Franklin thought this of so much Consequence that he published a short Epay giving an account of it, that other persons in the like Situation might avail themselves of it.

The second was communicated to me by Dr. Shiell who was former, by in this bity, and who had experienced the usefulness of the application him self. He recommended it to several others who all experienced its Utility. This Gentleman was subject to a most violent Head ache for several years which he had never been troubled with untill a Recovery from a malignant Gever which left a boldness of the feet. As he was himself a physician and in practice, he had recourse to every application that he had ever heard or read of but without Celief. as he had been a Student under Dr Cullen and enter. tained an high Opinion of his Medical Abilities he went from Ireland to Edinburgh to consult him: all Dr bullen's efforts to relieve him werein vain. He then tried the most celebrated Physicians in London but und. fortunately for him their Art proved ineffectual. He now gave up all hopes of Recovery and had nothing to depend upon but patience under his Sufferings. The was upon his Return home in this Situation when he fell in with an Old Friend, one of his fellow Students at Edinburgh, to whom here. lated the melancholy detail of his Sufferings and his Hopeless State. His Friend advised him to entertain better Ropes and gave him positive afourances of reles provided he would stay with him a few days, and make use of a domestic Remedy he would recommend to him which he told him would increase the perspiration in his Feet. This was the summit of his Wishes; he therefore com plied with the Request of his Friend, and in four days was relieved of the Coldness of his Feet and Meadache. Bay salt performed the bure. The Sale is to be made dry before the Fire and then reduced to an impalfoable fow. der and quited between Woolen or Sow bloths. The thickness of the whole need not exceed that of a brown piece. This is to be worn day, and night applied directly to the Soles of the Feet. The Effects of it are to keep the Theet warm and in a gentle Perspiration. I have recommended it in several bases, and never knew it fail to produce these Effects; in some the Moisture was so great as to wet the Linen this so as to oblige them

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to change the application twice a day. If you recollect, fas I told you when treating Condiments, how powerful a stimulus Salt is to the Unimal Billy you will not be at a lop in accounting for this Cure, i.e. by exciting a proper Determination of Fluids to the Beet. I formerly mentioned the Use of Salt in Hamorrhayes and that it was the principal Remedy; in the Hemophy. sis. From this we should learn never to slight the Reperience of even an Old Woman. It is not always left for physicians to make Dissoveries in Medicine, for the greatest Part of our most Capital Remedies have been into duced into the Materia Medical either by Chance or by Quachs and Illiterate Persons.

We are next to treat of some particular Substances employed as Emollienty We observed that Emollients were such Substances as relaa the rigidity of the Solids, diminish their Cohesion and introduce a larger quantity of Moisture and that they are indicated in Leanefs, Dryness and other disorders of this kind. All Substances containing Mucilage, Oil or Water are Emollients Warm Water will answer almost every Intention of Emollients. As I have been so very diffuse on that head, I shall have the fewer Observations to make on particular Substances.

Radia althora, or Marsh Mallow Root deservedly holds the first place among the particular emolicients. It may be applied externally in Such bings or Inflammations as a poultice. We likewise use it internally. A Dr. cortion or rather Infusion of an Ounce of the Root in a pint of Water of fords us an excellent Remedy in an arimony of the Frances. This is also very excellent in Chronic Sypenteries attended with great Pain and griping Where the natural Museus of the Intestines is generally abraded. A Deem tion of it is employed in Maphitis Cases. The Decortion is very serviceable wident purges occasioned by two severe a Cathartic. The Root boiled in red Wine affords us an excellent Drush for the Teeth, to preserve them It, keep them clean. The Root may be given to Children to chew when Teething to is much preferable to the hard Substances commonly given as it will yill to the Gums and not injure them. The Mucilage applied externally will speedly remove the pain arising from Blisters. The Decortion drank plen. tifully will prevent the Strangery which is often consequents upon the apple.

application of Blisters. Internally, it proves very serviceable in Strangury, Pleu. risy and a tickling bough Externally it is applied to mitigate Inflammation to maturate abrefses, to sheath parts excoriated and to remove pain. Linseed may be employed in the same bases with the althora. Linseed Lea proves very serviceable in ardor Mino, Mephritis pains, boughs, pleus risies and all Inflammations. The Meal is cometimes employed in Poulti. cies to relax, maturate and take off pain. The Oil is not aft to turn rancid as the other Oils and is sometimes employed in Emollient Glysters. It is also given by the Mouth. Gum Arabic & Tragacanth possess nearly the same Virtues, and in. deed the Virtues of all the Emollients are so much alike that we must de termine the Use of one in preference to another merely from Convenience. Tele in general for external Use employ the Farinacea and a poultie of Breads and Milk is perhaps equal to any of the More compound and apparently more artful preparations, especially if a little Oil or Hogs land be added to keep it moist and to prevent the Chaps and Figures of the Skin which are often produced by the external Upplication of Emollients. We are in the next place to treat of the Himulantia These are such Substances as excite the action of the moving hibres and do not act on the dead dibres. Whatever exites Motion or Contraction in an Animal Fibre is a Stimulant. Stimulants are either direct or indirect. The indirect are those which art upon the Organs of Sense by which a perception is formed in the Sensorium Commune and by this a more co. pious Determination of the Nervous power into the Whole or a hart of the Sys. tem is produced. The Direct are such as act immediately on the Moving Fibre without any Intervention of the Sens orium Commune. Stimulants are divided into Chemical and Mechanical in the Mechanical the Operation depends on and can be explained from the Tigure. Thus a Sharp Knife may otimulate: here we know the action depends entirely on the Edge of the Knife. The Chemical are those

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in which the Operation depends whon some peculiar property of the Body/with which we are unaequainted. Thus Sleat proves a honverful Stimulant but Ble as not tell upon what Property its Effects depend Most of the Stimulants we employ are of the Chemical kind for their Operation seldom depends upon their blave or bonstruction. The Operation of Stimulants is of two kinds: first the which is common to the whole System and indiscriminately, affects every Fibre; thus a Krife will cut and stimulate any Fibre. Many of the Saline Substances affect every Aibre indiscriminately. Secondly, That which is confined to some for the Mose and so of a variety of other Stimulants. The Operation of Stimulants the fore seems to be confined to the Newous System. This leads me to make a few Observations on the Newes; which Samuthe more inclined to do as D. Mon ro after thirty years attention to the Brain and Nerves has made some important Discoveries which throw great Light whom the Subject and which have escaped the Notice of all the Amatomists that went before him. I amnow here to follow him in his Anatomical Descriptions, which you will underly leady have in their proper places, but am only to consider the Physiological Plant.

Monro observes that the Human Species have more Brain in propor. tion to their Size than any other animal. This however is not the Casewith regard to the Merves, for in the Human Species as well as in all other animal the Size of the Merves is in proportion to the Size of the Body. From this Fact he draws this Conclusion and I think with reason, that the Brain in Man is not framed merely to afford Origin to the Nerves but is also the Seat of the Mind or our rational Faculties. From some preternatural appearances where the animal Sunctions were carried on when a bhilo was born with little or no Brain, or where this had almost been entirely, destroyed by Disease, he concludes that all the nervous Energy is not deviwed from the Brain but that it is generated in every part of the Body He found also that the pia Mater surrounds every Nerve to its ulti. mate termination and Camification and it is probable that it serves the same purpose to them that the periosteum does to the Bones. This Opinion of Dr. Monro seems confirmed from this Circum stance that Insects arend Jurnished with a Brain; what in them bears a resemblance to a Brain

being rather to appearance an Origin of a Nerve than a Seat for the Sen. sorium Commune. From this we may account with greater Satisfaction for ma. my Circumstances than we formerly could. Thus we know that a considerable vone may be given to a Simb by a Stimulus applied, as by Friction. This was oup = posed to be owing to a greater Determination of Mervous Power and Blood into, the part being produced. But we can more readily account for it from the Generation of Mervous Energy in the Simb. This however is not all for Do Monro Observes that there is a considerable consent between the nervous & las. cular parts by which a greater Determination of Fluids into the part is produced. This seems to be confirmed by a had mentioned by Mr. Bell of Edinburgh in a late System of Surgery. In the Operation for the ancurism where the principal artery was tied, the Merce was included in the Ligature, the parts below became cold and torfied and their Sensibility was increased in proportion as the Circu. lation in the lower part became considerable. I'm monro found that the different. Nerves formed anastomoses, by the fibres of one combining with the Fibres of ans. ther from a different part by which Connections are formed between the different parts of the Body by the Nerves independant of the Brain this is entirely new . Hence when a Merve is injured or destroyed the Muscles and other parts to which it is distributed are not rendered entirely useless but retain some Show of Sensibility and Saritability from the Connection of the News. Dr Monro supposes that ganglions are formed by the Fibres of the Merves mu. tually blending, each Nerve giving and receiving Films, and that their Use is to generate the Nervous Energy. This is also entirely new and even directly contrary to former Opinions. Dr. Monro has also found that the Merues tolar and their Germination run in a serpentine manner, like the Lines in the palm of the hand; the Use of which appears to be that they may more readily admit of Distension when the muscles are in action. From what has been said we may draw the following Conclusions:

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That many Disorders of the Merves, for Instance partial palsies are entire. ly local and that they do not originate in the Sensorium Commune and hence that they may be cured by local applications alone. That by the anastomosing of the Nerves, without the intervention of the Sensorium Commune Mervous Sympathies are formed in the Body. And may we not from a particular attention to these anastomoses expect to be able to

account for the various Sympathies which take place and also to discover newows. These Observations of think will tend to banish all the metaphysical Reasoning, which of late have been so very fashionable in Physic to so little purpose.

Stimulants are indicated wherever the Motions of the System are inert, lan guid, weak and slow. Dence they are indicated where the Motion of the Blood is suddenly stopped as in fainting. They are also indicated where there is a slug. gis hnels and stagnation of the Humours as in the Carhery and Chlorosis. Like wise in Janguenes when owing to an hydropic, Odematous or chacketic States the Body). Where Gangrene is owing to Inflammation and increased dotion of the Solids Stimulants are hurtful; but when it is owing to a diminished action of the Solids they are very useful. They are also employed in Intermittent Thevers to prevent the return of the bold Fit when given before the acception. Stimulants are also indicated in Mervous Disorder's particularly in palsies. The Causes of palsy are very various and there may perhaps be based in which Stimu. lants will prove improper and hurtful, but whenever palsy is owing to a Weakness and Inertia of the Nervous power Stimulants are highly useful They are likewise indicated in Vertigo, Sethargy, apoplexy and other Disordy of this kind. apoplery has been divided into the Sanglineous and serous and the application of Stimulants has been confined to the latter. Some mention a third Species of Apoplery, which they say is owing to and mention of the Mervous power in the Brain. Here Stimulants are undoubtedly me cefsary. But it is difficult to distinguish this species from the others; nor as we certain that this of precies exists, or that it is founded on practical Obse. vation. In the Serous apoplery Stimulants may be useful applied externally at a distance from the head to occasion a Revulsion from the Head, and in this way they may also be serviceable in the sanguineous apoplexy. But as to their external Exhibition in either of these bases it appears to be attended with great uncertainty and I can have no I dea of its propriety. They are also indicated in particular kinds of Head ache; those that are attended with Coldness, Raleness and Languor of the whole Body especially when they are of a Nervous Nature. But when Head sche is of the Rheumatic kindon is owing to Inflammation Atimulants are improper. When pain is without the Chanium Blisters and other will sometimes give telief, but when it appears to be an Offection of parts within the branusm all our Efforts will in general proce ineffectual." Stimulant

Stimulants are also indicated in Statulenices, acescency and Spasms of the alimen tary Canal which are commonly owing to Weakness and oftentimes produce Costume. ness and Indigestion. They det here by exciting the action of the Stomach and Intestines and thus promoting the Digestion of the aliment and Expulsion of the haves. These Symptoms, Alatulencies, Spasons to frequently accompany thesty sterie and Appochon driae Diseases. Stimulants are frequently indicated in their they act here principally as Antispasmadics. They have also been employed for the Cure of the Gout. Of their use in this Case we shall treat when we come to the Class of Betters.

Stimulants are hurtful wherever the action of the Heart and arteries is too vigorous: hence they are improper in all Hamorrhages, onflammations and

all kinds of Fevers arising from this Cause.

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Particular Stimulants.

These are very numerous Dr bullen has a great Variety of them. I am not to treat of all he mentions but shall confine my self to those which deserve to be employed in Medicine.

Melissa, or Balm. I should not mention this were it not the Substance most generally employed in this Country in Infusion or Tea as a common Drink for the sick . Its Virtues are very inconsiderable and happily for the patient for as it is given indiscriminately in every base if it were pof sefsed of much Efficacy, it would often do Injury. Applysician however who hays any regard to rational Indications will prescribe it only in such Dis. orders as are attended with Languon and Debility.

Lavender. An Infusion of Lavender may be useful in Diseases owing to pituita figida, that is in such as are accompanied with Languor and Debility, and in Cases of Head ashe attended with or owing to Languor this also recommended in tremors of the Extremities, paralytic affections of any part of the Body, a Dimness of Sight and a Dullness of hearing.

Marjoram is possessed of some accumony with an agreeable Odor. It is use. ful in all bases of Sanguon and Deblity and hence has obtained the name of a powerful bephalic. It is useful in Infusion in the pituitous Asthma and

Catarrh when it is not altended with hever as it promotes Expectorations is possessed of a gentle antispasmodic Quality. It is the strongest and most pour erful of the Class to which it belongs if we except the

Marum verum or Syrian Mastic which has been highly recommende in all those Disorders in which the others of this Classacemployed.

Hysop and Pennyroyal agree pretty much in Virtues. The latter ex. hels Flatulencies and is a powerful antispas modio; it will promote ment ation when this is obstructed by a spasmodic affection of the Uterus, and it is generally employed by the Women in their pediluvia to bring on this Dis charge when it is obstructed. They are both serviceable in Diseases of the Ann when they are not attended with Tever,

Of the Mints there are a great number many of which are employed in Medicine.

Peppermint. Its action is more considerable and sooner extended over the System than that of any of the others. Deppermint Water may be employ ed with advantage in Comiting, Aiceoughs, Colies and all Diseases arising from Flatulencies or a Distention of the Abdomen from air contained by in the Intestines and it has obtained and carminative. Peppermint will relieve the Obstruction of the Menses when it is owing to Spasms of the Uterus

alimentary Canal.

Sage in many bases proves a good Remedy! It was highly esteemed by the Un cients. Desides its Stimulant it is possessed of an astringent Quality. It affords a Concretion something similar to Camphon. Van Swieten recommends and fusion of Sage for those Night Sweats which follow and often attend other Disorders and are owing to Debility. It has been also recommended in Tremos Palsies and the Thor alles. Sage has been used by the Good Women in the Same manner as Balm, as a Drink for the Sick, but as it is a more efficacious Remedy we should be careful not to give it when there are Symptons of Inflammation. We should confine its ilse to those Gevers that are attended with Languor and Debility. Sage has been recommended to prevent abortions when they are become habitual and nothing is more common than for the good Women to prescribe red Sage in this intention Its use is frequently attended with Success in this Case. another

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another Set of Stimulants is comprehended under the vitte of Umbelliferce. Of these are the following: Anise, Carraway, Gennel, Cummin
Coriander, Wild Carrot, and Candy Carrot. The part of them generally
employed and in which their Virtues principally reside is the Seed. Of the following only the Roots are employed. Ingellied, Burnet, Saxifrage, Lovage and Italian Rartwort. These are all Carminative and Antispas mo:
die afsist Digestion, relieve Head askes arising from Crudity, dispel Flatulen.
cies and cure Colis and other Disorders arising from Platulencies.

Angelica has been accounted alexipharmic and has been highly extolled in Contagious Diseases. It however answers no better than any other Stimulant and Diaphoretic Medicine. The Ancients had a great Opinion of Alexiphar mics which they expected would prevent poison or Contagious matter from producing any bad Effects whom the Body! We now know that no Medicine properly alexifoharmic and those Substances which were most extolled by is properly alexifoharmic and those Substances which were most extolled by the ancients in this Intention are in general either possess of very little Efficacy or are wholly inert.

Anise and Fennel are the most powerful and the most agreeable of this Class. A Tea of these Seeds is a very excellent Medicine for Children who from the acescency of their Milk are afflicted with platelensies and Gripings. They are much preferable to the permicious Spirituous Siquors generally given by the Murses in this Case.

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The Wild Carrot has been recommended in Calculous Concretions of the Rid.
news and Bladder Its use however in this base seems doubtful, for it neither
dissolves the Stone in nor out of the Body nor are its diwretic Virtues considure
ble, appearing to be only casual. We have however convincing Sestimonies of
Relief being obtained by the Use of this Medicine. It may perhaps act as
an Antispasmodic mitigating the pains arising from the Stone or Gravel
which appear evidently to be of a sparmodic Mature and we know that the
Symptoms of the Stone may often be alleviated by Opium and other Antis pasmodies.

The next Order are the Siliquosa. Of these are Mustard, Radish, Horse Radish all the Nasturtiums and Scurry Grafs. all then are employed for the bure of and preservation from the Scurry. They are the only

only Stimulants that are to be employed with Safety in this Disease, for as I observed when we were whow the Scurvy nothing is proper but such Substances are liable to undergo a Fermentation in the attornach and be converted into our the ids. These Substances tend to increase the Evacuation by Sweat and Ulrine while at the same time they correct the Tendency of the Fluids to Butrefaction. Mustard Seed is very serviceable in paralytic Offections. The Dose is 3 or 4 Table spronsful of the Seed unbruised in aday so as to keep the Body gently open. In this way I have found it one of the safest and most efficacions Remedies we can employ in this base. It never excites a Sensation of Heat inth Stomach nor is there any danger of Inflammation being excited By being given unbruised the Stomach extracts its Wirtues slowly and thus the Geat & Inflammation are prevented which would be produced were we to give the same quantity bruised or in powder. Mustand when bruised and taken in the dose of 3/s or 31 in powder affords us a most excellent Emetic Its action is confined principally to the Stomach and is not extended over the System Itis particularly serviceable when we want to evacuate the Contents of the Sto. mach without affecting the rest of the System. We may by giving the pa. tient a weaks Infusion to Drink carry the Operation to what length we place for in the above mentioned Dose it seldom produces more than one Evacuation unless it is encouraged. Mustard Whey affords us an excellent Remedy in Sethargy and Serous apopleary and in all Cases of Languar & Debility . It is of the greatest Use in the last stage of New our Fevers in which there is great loss of Sensibility. It is carried into the Intestines and proves purgative. Some part will enter the Circulation and will prove a powerful Stimulus to the whole system. It increases the Evacuations by Urine and by Sweat and solves of pasm upon the Surface. Mustard is cometimes applied externally to excite the action of the Seart and Anteries, which it does more howerfully and more effectually produces a derivation of the from the part affected than Blisters. We may in many bases employ Sinapisms with good effects when our patients will not suffer us to apply Blisters, the the Pain arising from Sinapisms is much greater thanks arising from Blisters. Tele must not however in all bases substitute Sinan pisms for Blisters. In Cases of Topical Inflammations and in Inflam matory Tevers they by their great Stimulus will evidently know hurtful Horse Radish

Hotse Radish is possessed of similar Virtues with Mustard. It is employed ed infused in Bew with Mustard as a constant Drink in Dropsies owing to Sanguor and Debility or Obstructions of the Visceral from Sluggishness . Hereby its Stimulus it may act as a Diwretie. It may answer very well in this Way as a common Drink for the patients as it will tend to remove the intollerable thirst with which persons in this Disease are commonly tormented, and will also pass quickly out of the System. It has been recommended in Coughs, Avardeness and particularly, in the Humoural Asthma. It is to be given made into a Syrup with Sugar. All the Siliquose are recommended in Ploarsness and for giving a clear Some to the voice. Agreeing with the Siliquose in Pirtue are,

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Garlie, Onions and Lecks. Garlie has been recommended for the bure of Worms, which it is said to destroy even when applied to the Mavel or Soles of the Feet Nowever this may be, when given internally it destroys Worms and if persisted in for a sufficient length of Time it will generally relieve persons troubled with Mormo. Garlie proves a powerful Divertie and Dia. phoretic. It appears in its sensible Qualities to approach very near to also facts. da In the Catarrhus senilis, a Disease incident to old age, in which from the Diminution of the natural Evacuations the Aumours are thrown whom the Lungs . In this base all we can do is to alleviate the Disease, for we can. not enterely remove it: This is to be done by increasing the perspiration by some Diaphoretic Garlie and Assafatida are the best Substances we can employ for these purposes. Their constant use is attended with this Disadvantage that they render the persons Breath and perspiration very offensive, but this is an inconvenience that must be put up with. The Garlie should be to. ken in the Morning and Evening and swallowed whole, for then its Vis tues are better extracted and it will more effectually prove Diaphoretic and Divertie. Garlie has been recommended for the Cure of the Stone, but it car. tainly can have no Effects in this base. Boiled and roasted Onions have been strongly resommended for promoting the Maturation of Boils or abcefor, but I can have no Idea of their superior Eficacy, for by boiling they are deprived of all their acrimony and are converted into a mucilaginous Substance. any simple and more agreeable Mucilage will answer e.

The next Substances we are to treat of are the Conifera. Under the Head we comprehend the Fir the pine and Juniper. Their Virtues are nearly the same and are owing to the Turpentine they contain, and will therefore be greater or less in proportion to the quantity of this Surpentine The Sur and Pine sopo are frequently employed in Diet Drinks for sweetening and purging the Blood. An Infusion of them proves divietie and diaphoretic and hence is serviceble in the Survey. This has also been found very useful in Emptions and Soulnesses of the thin which were thought to be owing to a Scorbutic Habit of Body. These Emptions are owing generally to an obstruction perspiration by which the Matter that & hould be thrown off in this way stag. nates under the Skin, becomes acrid and by its stimulus produces Anflamme tion when pimples, Alcers & are produced independant of any acrimony or Impurity in the Mass of Blood. as this is the base no Medicines will tend to remove but such as increase the perspiration and have a tendency to the Superficies. For this purpose an Infusion of the Vin Tops will lan swer as well as any thing else. By this Remedy the late Sord Chancellor Mr. thington was weed of trustions in his have with which he had been trouble many years and for which he had used a Variety of Medicines to no pur pose. It is of no great Consequence which species of the vir we employ asthy are all possessed of similar Virtues. We in general choose the Shoots ofon Year when they are about a Finger's length.

The Wood and Berries of Juniper agree in Virtues with the Pine and Sir. They are much employed as diviretic and Carminative. An Infusion of Juniper Barries or Oil of Juniper may be given with advantage in Spasms and Coliss owing to Hatulenius, but where there are any In: flammations Symptoms we ought to repain from the Use of this reshedy this may be serviceable in pituitous Asthma when it is not accompanied with the Ever. Van Helmont strongly resommends the Rob and a certain prepare, thon which he kept a secret as a powerful diviretic in the Dropsy. We don't however trust to this Medicine alone for the Cure of the Dropsy. The Rob.

ge will and may serve as a convenient behicle for giving Divertie Medicines with which it corresponds in Virtues and we should always have this in Wiew, never to rufera Un add any Medicine to a prescription which does not correspond in Virtues thew Victor with the principal Medicine. an Infusion of Juniper Berries has been ontain, and recommended in the Mephritis and in Galculous Concretions of the Ridneys is Jurpente and Bladder, but as these are generally altended with Inflammation, this ike for street medicine from its Stimulus is certainly highly improper. At pasm of the the and dies Bowels will sometimes so much resemble a Git of the Nephritis as to deand very un! cieve both patient and physician In this base an Infusion of Juniper It to be own to Berries will most effectually give Telief and probably from some such ly to an of in this way to base they at first the improperly obtained the Ceputation of being service. hrodenes from able in the Nephritis. The next Substances we are to treat of are the Salsams; This get of any acres their Mame from their agreeable Odour and their property of resisting Butse. Medicines faction. They are used both externally and internally. They may be de -I have a le to fined, resinous, Oily Bodies, Odoriferous, of the Consistence of an Oint. ment or Siniment. They are either Mative or artificial. They are also Dir Tops and ord Chances divided into the liquid and the dry Of the Liquid are Balsam Copai. he had been to ba, the Balsams of Peru, of Tolu, of Canada and the various Turle dicines ten we employ it Balsam Copailed has been much employed for the stopping of blets ou the war in the Urinary passages whether owing to a Venereal Cause or not. It has been commonly supposed in this base to act as an astringent . It is how. Ever possessed of no such property for when given in sufficient quantity it affords a most excellent Saxative. It is evidently a Stimulant and it has a particular Tendency to the Uninary passages as appears from its imparting to the Wrine of Persons who take it the Smell of Diolets, its bitter Taste, I

its agravating a Jonorrhoa Gleets are generally owing to Debility and

Stimulants by giving Jone to the Parts and by exciting an Inflamma.

tion and Constriction of the Mouth of the Glands in the Wrethra will

often cure them bantharides are often found effectual in curing a

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Gleet and probably would be much oftener so were not their effects so uncer. tain for a certain Dose will produce very different Effects in different persons. Riding a long Journey on Horse back has also been found to stop a Gleet In these lases the Effect is certainly produced by the Irritation given to the Man thras by which an Inflammation is produced which causes a Construction and thus stops the Mouths of the Glands. Balsam Copaila may act in the same mariner. It ought not be given while there is any Inflammation remaining. From its Tendency to the Wrinary Passages it has this advantage that it will exert its effects without stimulating the whole System. Bals. Copaila has been also recommended in the Theor albus. In this Case it may act by communicating an Irritation to the Uterus from its Con tiquity to the Wrethra; and even when this Disorder is owing to a gene. ral Melaxation it has been cured by a long continued use of this Me. disine. Combined with Salt of Sarlar it is recommended in the pituita Fi gida and the Pituitous at thma, also in Glandular Swellings and the structions. We need scarcely repeat the Observation that we should be can, ful not to use it where there are febrile Symptoms.

The Balsam of Peru is applied externally where a Merve, vendor on Perios teum has been injured. It is used internally from 20 to 40 Drops for a Dose in the Cure of the Colica Pictonum. Sydenham and Hillary the latter of which practised Physic for many Years in the Island of an badoes, bestow great Encomiums on it in this Case. The latter particularly mentions it for the Gure of the Palsy which is frequently the Consequence of this Disease. It is likewise recommended in forsumptions & Allers of the Sungs But on account of the Fever and Infammation generally at tending these Cases, appears to be improper. In the Pituitous asthmail is employed not improperly, for by its Stimulus it will prove Division Diapohoretic and also promote Expectoration.

The Balsam of Tolie is possessed of Similar Virtues and it is employed in the same Diseases as the Balsam of Peru.

Turpentine has much the same Virtues. It is strongly resommended

ded by D. Pitcairn in the Sciatica when given in large Doses and persis: ted in for aconsiderable Length of time. It may be very serviceable in bases of Habitual Costiveness owing to a weakened peristallie Motion occasioning Hatulencies and Spasm It is often used, in Cases of obstinate Contiveness in Glysters where it is better than Salt and acts as an antispasmodic. Tur. pentine combined with the Yolk of an Egg has been found very serviceble in Ulcerations of the Intestines when it can be applied to them. I Gumigation of Turpentine has been found service able in relieving the Pain arising from the Blind piles. Gum Bui arum is propelsed of similar Writies with the Balsams we have just mentioned. It is particularly recommended in arthritic and Khewmatic bases. In the former it is said to be a useful Remedy. In the latter particularly in the chronic Rheumatism it is said to be a specific. Dr. prin gle in his Diseases of the army mentions the Use of it with approbation. It acts by its Diaphoretic Qualities. We should be very cautious not to use it when there are Symptoms of Inflammation . It is principally of Service in the Chronic Rheumatism. Gum Guias by being mixed with the White of an Egg or the Mucilage of Gum arabie becomes soluble in Water. Two Drachms dispolved in Zvj of Water with going or griv of vartar Emotie will afford us a most elegant and efficacious Remedy. A Table spoonful of this may be taken every 2 or 3 hours; or which will answer equally well it may be aubbed very fine with Mitre and a small quantity of Vart. Emet. added Myrrh is an Exudation of some vegetable Substances collected by certain Insects and by them hounded up in the Hollow Trunks of Trees in the same manner as wax is collected and hoarded up by Bees, whence it

tain Insects and by them hounded up in the Hollow Trunks of Trees in the same manner as wax is collected and hounded up by Bees, whence it is brought to us in the Grains in which we see it. It was the Substance from cifully, used by the ancients for embalming and preserving dead Bodies from Corruption waken in large quantities Myrch Stimulates the Stomach and the System in general. It affects the Mrinary passages in the same Manner as the Balsams. Externally it is used in foul and sordid Allers as it resists putrifaction, and to prevent and our gangrue.

When given internally it will not cure futied Disorders on account of its heating and Stimulating quality.

It has been considered as Emmenagogue, but it has no particular Virtue in this Way, acting as all other Thinulants. Boerhaave placed the baum of many Disorders in what he termed the Spontaneous bluten and mert fibre and in these Disorders he particularly recommends Myrrh, but as well not know that this Cause exists we cannot be certain of the good Effects of the Medicine.

Gum Benjamin has been generally reckoned Pectoral. The Salino Substance called the Solowers of Benjamin are thought remarkably so the use appears to be rather hypothetical in the common Dow of from grij to go. We must give it in doses of grap or grax to produce any Effects and we in this dose its Effects are inconsiderable

We are next to consider some of the Woods employed in Medicine. The following are employed for the same Uses

Guacum. This, ever since it has been brought into Europe, has been esteemed very efficacious in Menereal Cases. The Effects produced appear to be in a great Measure owing to the Sweating and emaciating Process combined with its Use. The Method of Using it is as follows; 12 Ounces of the Ju. acum is to be infused or macerated for 24 hours in of telater, which is then to be boiled untill one half is evaporated, the patient is to be put in a warm Room and to drink plentifully of this Decoction which is to be warm. He is also to be in Bed, and by covering himself up is to excite & ensourage a Sweat. De is to continue this Course for 24 Days. All this time he is to live on a very sparethin Diet, using a weak Infusion of the thorn for his Common Drink and taking the former strong Desortion every 24 hours. The Juiacum in this base has certainly the least share in performing the fire, and there can be no doubt but that warm Water administred in the same manner will produce equally good Effects. The Italian Physicians are so well convinced of this that they oftentimes we nothing else in the Cure of the Venereal Diverse but Warm Water and Sweating

Sweating. Sassatras has been employed in the same manner and in the same Intention with the Guiacum. The best Method of using it is in Infusion a Continued Use of it may be serviceable in Cachery and Thuor albus. It may be serviceable in Blotches and Eruptions of the Skin where it acts as a Stimulant increasing the Perspiration. Sarsaparilla was used for the same purpose and in the same Man. ner as the Guracum with which it was frequently combined. It was for a long time neglected untill Mr Fordyce again introduced it into practice in the following oscasion. Mr. Rennedy had done great Service in Venereal Pases by what he called the Sistion Diet Drink on Kennedy's Decoction, the preparation of which he kept a secret. Many Conjectures were formed concerning this and amongst others it was out posed to be nothing but a Desoction of Sarsaparilla. This was therefore tried and was found to be serviceable particularly in chronic Ulenereal Complaints where Mercury had been previously given. When Mercury had not preceded its Use it did not answer so well. Where a Salive. tion had been employed without Effect, where there were Allers, pains in the Sion by Sarsaparilla was found serviceable. There is no doubt but that Sarsaparilla is much inferiors to the Sistion Diet Drinks I have it from good Authority that this Diet Drink or chennedy's Dex coction will be a short time cure all venereal Complaints whether Mercury has presended its Exhibition or not. The Cortex Mezerion or Spunge Laurel approaches nearest to the Lisbon Diet Drink in Virtues It is found of great service in re-moving Venereal Exostoses and Pains in the Bones. Take of Spunge Laurel and Signorice Root each Zij slice and boil them in three founds of Water untill only boil remain. Let the Patient take this quantity every 24 hours and in 6 Weeks he may expect a perfect

Radix Contrayerva has been reckoned diaphoretic and alex ipharmic and has been much recommended in Contagious Diseases arising from putrid Miasmata. His also used in Mervous Fevers to

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from gro to grx. every 2 or three hours. It may however be given to z without any sensible effects. Hence it appears to be of little or no use but to brifle with.

We have now finished those Stimulants that could be ranked a cording to the Botanical analogy. The following are ranked together

from agreeing in sensible qualities.

Aromatics are certain Substances which join to an acrid pungent Taste a fragrant Odor of the agreeable kind. Hence they remarkably at fect our Organs of Taste and of Smell. They are all possessed of an essential Oil Specifically heavier than Water. They are in general Broductions of the Torrid Lone and agree in Medicinal Virtues as much as in sensible qualities.

Cinnamon is the most agreeable. It grows naturally in the Island of Leylon from whence it is brought by the Dutch. It is said that when too great a quantity of this has been imported, the East India Company order a quantity of it to be burnt that the price of this valuable articlem not be beformed. It is the best Cordial Stimulant in all Cases of Lange and Sebility. Autumnal Intermittents are frequently attended withless quor and Debility. The Oil of binnamon is one of the best temin we can employ in this fase. A single Drop is a sufficient Dose. We should always prefer the Oil that runs towards the End of the process. Cinna. mon is frequently added to purgatives to prevent the shasms arising from their Use. Thus it is very properly added to an Infusion of Senna & is sometimes added to thubarb to increase its purgative Virtues and on times to increase its astringency. When we add finnamon to Devotion with a View of increasing their purgative quality we should not put it in untill the latter end of the Desoction but when we want its astra gent qualities we should add it at the beginning and let it remain de ring the whole time. Cinnamon is the safest and most agreeable stime lus to lying in Women when they require the Use of such Medicines. It is a very good Carminative and is therefore very useful to Children who

who are troubled with Gripings and Flatulencies. When a Suppression of the Menses is owing to Spasm or Relaxation on Flatulency in the alimentary Canal Cinnamon is a safe and effectual Remedy.

Cloves are more acrid and stimulating. The Oil is sometimes added to Stimulating Medicines, but as it is highly acrid we should be cautious not to be too free in its use. It is sometimes employed in the Gooth ache. Adopt is put into the hollow sooth to destroy the Sensibility of the Merve. Cloves are useful in Paralytic Affections of the Songue when the patient is able to chew them. They are also employed externally in Colics, Comitings and Aiceoughs. They are useful applied to the Homach of Infants that are trow. bled with Itatulencies. A weak Infusion or Sea may likewise be given in these Cases when they are not attended with Fever.

Nutrnegs are the Fruit of a cree native of the East Indies upon which they are said to grow in the same manner as our Hickory thats grow here. It is said they are all put in Sime Water before they are exported to prevent their germinating. In their Fresh or resent state they are property seford of a narcotic or stupefying quality. Bontius who practiced physic for many years in the last Indies observes that those persons who used the recent Nutrnegs freely were often affected with Stupon and sometimy with an applexy. Arofin an relates the base of a young Woman who up on taking a large quantity of Mace to promote the Menstrual Discharge was seized with a Delirium that continued for several Hours. From this Marcotic quality and their Ustringency, Autmegs are useful in the airhead and Dysenteries. They are also useful in Telaxation and Debility of the Stomach.

Mace is possessed of the same Virtues with Mutmegs and is the production of the same Tree growing round the Mutmeg in the form of a Met.

Pepper when finely Bowdered will excite Discough. It is employed by the Country people for the Bure of Intermittents. a Table spoonful of unground pepper is taken in a Glass of Rum about half an hour before the Frit comes on which it often prevents, by keeping up a constant

and

and not disagreeable Warmth which it communicates to the Stomach. If he ever it has not the Effect of putting off the Tit the patient is sure to suffer werely for his Temerity when the Hot Whit comes on. From this we see that it is an ambiguous Remedy and even dangerous and that we ought not therefore to prescribe it for this purpose.

Serpentaria Virginiana. Our Common Inake Toot; is a powerfult mulant with an aromatic flavour. It powerfully resists putrefaction and hence is employed in malignant Fevers. In the beginning of these Fevers who there is an Inflammatory State attimulants are hurtful. But in the de cline when the Constitution is weakened and the Mowers of Sife have become low Stimulants are necessary; and here Snake Root is one ofthe best Remedies we can employ. It is also an excellent preservative against Contagious Disorders. It is generally hurtful in Hernal Inter. mittents on account of the Inflammatory Diathesis which generally he vails in these. But in the autumnal Intermittents and Remittent it is one of the best temedies and I scarce ever omit prescribing it in the I likewise order it in all Mervous Severs where it proves a most excellent Remedy). It is hurtful only where there are Inflammatory Symptoms, and even where there are Symptoms of Inflammatory Diathesis, provided the Sever is of the Intermittent kind we may use Inake Root Sea during the Intermession with advantage. It is highly useful for the Man. sea which generally attends autumnal Remittents. The oftentimes can, not give the Bark on account of the Maused which it excites. In this Case I have found nothing preferable to giving the Bark in a bup of strong Inake Kool Sea. This will often be retained on the Atomas when everything else will be rejected by Domiting . Strong Snake Root Jea is one of the Best Remedies for the violent and dangerous Airing which sometimes occur in Territtent Levers. In one base of this kin, in which I prescribed it, it acted like a Charm!

Ginseng is a root which is in much Esteem among the Chinese. They/employ it for preventing and curing all Diseases, and think it tends to prolong life. They/

They formerly prowed it from Jartary alone and the Chinese valued it so high asto give triple the Weight of Silver for it: for one found of Gin. seng of Tartary they gave 3 to of Silver. It was found to grow plentifully But from being carried to China in very large Quantities and probably some of it being of an Inferior quality, the Chinese came to consider the whole as a fraudulent Imposition and therefore did not value our Sinseng near so high as that of Sartary. Notwithstanding the high Esteem in which it is held by the Chinese Ginseng is possessed of little or no Wirtue, It may serve as an agrecable and safe masticatory to persons who require such an amusement, much preferable in every Cespect to the Mauseous Herb Dobacco. Cascarilla has been employed in putrid and malignant Fievers. A has likewise been recommended in Intermittents, but it is by no means equal to the peruvian Bark. Degner employed it in the Dypentery. Besides its Stimulating Quality it is likewise possessed of an astritugent and narcotic Virtue. It may therefore probably prove serviceable in the nie Lysenterics.

The next Set that agree in sensible qualities are the Bitters. Of these the first is

Wormwoods. This with Worm Seed and many other Bitters has been reckoned very service able for persons troubled with Worms. This Virtue seems to be ascribed to Bitters upon no good Foundation for Worms will live a considerable Time in these Substances out of the Body without showing any uneasiness. A long continued Use of Bitters may by giving Fones to the Intestines prevent the future Generation of Worms in the Intes = times. Wormwood has always been esteemed for its divertic Wirtues and hence it has been frequently employed in the Dropsy. Its divertic Wirtues may be considerably increased by combining it with Salt of Fartar. Two Drachms or half an Ownce of Salt of Fartar disolved in Zviij Of an Infusion of Wormwood affords us one of the best Temedies hithers disoner

discovered for the bare of the Dropsy! Closmwood has been used for the bux of Jaundice supplying in this case the place of the Bile. A Desoction of the Wood with the addition of a large quantity of Common Salt is applied ear nally in Jangrene. Along continued Use of Wormwood affects the Eyes with a disagreeable Sensation of Dryness, Contraction Weakness and Inflammation attended with Head ache It is likewise accused of bringing on Giddiness. The Effects seem to depend on its Marcotic Quality.

Carduus Benedictus was formerly employed in those Cases in which the Bark is now given. It may still be used with advantage in some Cases Thus in the beginning of Intermittents when we cannot give the Bark, we may give our patient a Gold Dinfusion, which will often produce a distint Intermission and thus give us the Oppertunity of administering the Bark

Chamornile was the Substance most generally employed where we mow give the Bark before this Remedy was discovered. It is possessed of all the Virtues of Bitters. It is a powerful antiseptic and resists putrefaction of every kind. Chamomile Sea may also be used with advantage in a mittent and Intermittent Levers and probably would be useful much of tener were it not so apt to run off by stool. Chamomile Sea is very proper to work off a Momit with, as it does not relax the Stomach so much as warm Water and some part of it will be taken into the Sur ten and prove diaphoretic and direction.

Sanzy is said to preserve animal Bodies from Putrefaction. The Women employ it for the Systeries. They also use it in their pediliviate promote the Menstrual Discharge. In the German Philosophical Transactions it is recommended in the Dropsy. It may not as a Divinetic in the same manner as Wormwood. The Seeds of Janzy are reckoned good against Worms but they will answer no better than any other Bitter.

Orange Peel contains a large portion of an essential Oil. It appear

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appears to be heating and stimulating. It is very useful in Spasms and Flature. lencres arising from Indigestion when these Complaints are not alter ded to rever!

Lefser Centaury and Gentian agree very much in Virtues. They are both very pure Betters and are Species of the same Genus. Gentian and Orange peel are the principal Ingredients in what is called Stoughtons Bitter which is so much employed to strengthen the Atomach. By a long continued the of this as well as of all other stimulants the Sone of the Atomach is destroyed the Root of Gentian is employed by the Surgeons in fistulous Ulears to keep them clean and to keep their Sips from growing together. An Infusion of bentaury will answer the same purpose with Chamomile Tea. Centaury and Gentian are sometimes employed for the Cure of Intermittents. The Dose is 3 fo every half hour or hour. They are much inferior in this Case to the Peruvian Bark.

Columbo Root is a strong pure Bitter and a powerful Stimulant. I have found it particularly serviceable in checking the bilious Vomitings which altend remittent Fevers, particularly in the base of a Sady whose Stomach was very irritable, who was relieved by this Remedy when seve ral others had failed. She has not had a return of her Complaint since, which is now about a twelvementh Since that time I have given it frequently for checking Vomitings. The manner in which I generally employ it is to infuse Ifs in 1/2 a pint of boiling Water. After this has grown cold for 2 vablespoonsfull are to be taken every 2 or 3 hours. It is also said to be a powerful Untiseptic but I have never had an Opportunity of experiencing its Effects in this Way.

Derwian Bark is so much employed in Medicine that it well deserves a particular attention. This was first made known to the Governor of Loxa who by his Entreaties and friendly Offices to the Matives of tained from them the Knowledge of this Remedy by which they cured

their Intermittents. He communicated it to the Spanish Oceroy, the Count de Chineon whose Lady lay dangerously ill of an Intermittent in 1638. It was first brought into Europe in the Year 1640. In 1649 a Jesuithrough a quantity of it to Rome and hence it obtained the Name of the Jesuits But It was sold by these Fathers at an exorbitant price. Two Drachms were how ever in general sufficient to perfect a lure. It was afterwards ne glected un. till Sir Robert Salbot again employed it with great Success in 1679, those kept it a Secret and it was only known under the Name of the English powder. Sours the 14th purchased the Secret for a premium of 2000 you. neas and likewise allowed sir Robert a pension of 100 Guineas par year during Sife. Since that time it has been universally known and very generally employed sometimes with and sometimes without propriety good Bank may be known by its Weight, Theohners, Brittleness and ohining appearance when broken. The best Method however to judge of its good. ness is by making a Desoction of it in rain Water; for this purpose Zijo Zij may be boiled in a little Rain Water: the Decostion is to be poured into a Clean Glass. If the Decortion appears Ted while warm but whon cooling turns white or pale and deposits a Sediment we may conclude that the Bark is good not otherwise. Bark has been employed in a Variety of Diseases and has been supposed to act by some specific property. It ma: nifestly is a Bitter combined with astringency with some Degree of aroma From these qualities I think we may explain its Virtues in all Cases in which it proves serviceable. It is useful in those Disorders in which there is a gene. ral or partial Debility, but it's hurtful in those which are attended with i: gidity, plethora, Fever and Inflammatory Symptoms In Wornal Inter. mittents which are generally attended with Inflammatory Symptoms the Bark in general proves hurtful . In the autumnal in which Debility and some degree of Butrescency takes place, from the first I wasion, Back proves a useful Remedy. When Obstructions are owing to Relaxation and Debility, by which the Solids are unable to propel the Circulating Fluids whenever they stagnate, the Bark by giving Some and strengthening the Solids proves very serviceable; but when these depend whon Rigidly

or a too vigorous action of the Solids or whon plethors the Bark is injurious. The best Method of exhibiting it is in Substance from 36 to 31 every 2 on 3 hours or ofteness, according to neceptity. When given in Inferio on or Decortion it does not answer so well as when given in Substance as it is more aft to run off by Stool or Wrine and defeat our Intentions. The Bark is indicated in all periodical spasmodic affections of the Head which depend on Mobility and I vitability of the System. It acts here by restoring Tone to the System and takes of the Relaxation on which Mobility and Intentions we should avoid the Use of the Barks untill these are removed.

Thus the Chincough which is evidently a Masmodis Disease may frequently be cured by a judicious administration of the Bark. In the beginning of the Disorder when there are Symptoms of Inflammation or during the paroxyom the Bark is highly improper; but in the latter End of the Disorder ason those Days on which the disorder is moderate it proves a valuable Remedy. The Bark is a useful Remedy in periodi. cal Colics which return at stated Intervals. In Epilepsies which depend upon Mobility and Irritability the Barks may sometimes be of Service by taking of the Relaxation whon which these depend and restoring Sone to the System. It is of the greatest Service in Gangrenes that are owing to Relaxation and debility of the Solids. In this base when there is imminent Danger we should pay no regard to quantity. We may give it in as large quantities and as often as the Stomach will hear From Ifoto By may be given every 1/4 or 1/2 hour. Wele may also apply it in Tomentation externally at the same time. It is not a specific in this Case but acts by strengthening and exiting the action of the sound parts, whence an Inflammation and Suppuration are brought on by which the mortified parts are seperated from the sound. When Jangrene is owing to Inflamma. tion and an increased action of the Heart and Orteries, the Bark is certainly, improper, and acidulated, diluted Drinks are the best Teme. dies. I formerly mentioned how Inflammations might be occasioned

by a Relaxation and Debility of the Solids as well as by their increased at In the former base the Bark may be employed with advantage. In thele ter it is evidently highly improper. The principal and most general Use of the Bark has been for the lure of Intermittent and remittent Fevers In these Cases it has also been supposed a Specific; its Virtues however manifold depend upon its Bitterness, astringency and aroma, and were it possibles make a Combination by art in which these properties did exist in the same perfection as in the peruvian Bark, I do not doubt but that it in prove equally effectual with this in the Cure of Intermittent Frevers. Bu ters and astringents have at all times been recommended for the bare of these Disorders and I have known a mixture of Galls and Gentian and an Intermittent in which the Bank had been tried to no purpose which probably was owing to the inferior quality of the Bark. Various Opinion have been formed with respect to the proximate Cause of Intermittent The most antient Opinion is that the Disease is brought on by a mor bid Matter lodged in the Body and the Gure consisted in evacuating the Matter. This Opinion appears to be ill founded if we attend to the follow. ing Considerations. The Fit may be prevented and oftentimes cured without any Evacuation being produced. Thus we may often prevent the fit by giving an anadyne a short time before this used to return. These certainly do not produce any Evacuation but rather before and entirely suppresset usual Evacuations. The Disease is not to be cured by Evacuations alone. Bleeding and Burging will never cure the Disorder and indeed are frequent by hurtful. Emeties indeed frequently perform a cure without the afin tance of any other Remedy, but that they do not act by merely empty: ing the Stomach of its Contents is evident from this Consideration, that they will answer as well if not better when they do not produce Vom ting as when this is excited. The Bark does not increase any Evacuation and yet performs a live. Another Opinion is that the Cause consists in an accumulation and Sentor of the Humours in the la. treme Defoels in the Skin. This is certainly false for the very reverse takes

takes place. The Blood is driven from the Superficies and accumulations are for med in the Viscera. A third Opinion is that the Disease is a nervous Office. with a Spasmodic Constitution of the extreeme Olefsels on the Skin and hence the Cause is placed in the nervous System. This Opinion appears to be the most probable and several Circumstances tend to confirm it. The Medicines em. played to cure are all of an antispasmodic Mature. Offictions of the Mind will frequently cure this Disorder and as often produce it. Merrous Diseases are often known to become intermittent and the Intermittents are frequently changed into Newous. Iknew a Gentleman afflicted with a periodical bo. his which returned every day at a particular Hour. One Day at the Hour on which the bolic used to return, he was attacked with a thit of the ague and no Symptoms of the bolic appeared. The next day the Colic returned when he was freed from his Intermittent: and the Disorder thus proceeded from Intermittent to bolic atternately untill a stop was put to it by the use of proper Remedies. Some have endeavoured to place the Cause in an Inertia of the Aeroous Third, but this it is difficult to determine The Regular return of the Paroxy sms has at all times afforded Matter of Speculation. Many Opinions have been formed to account for this but none of them are satisfactory. In a late publication on this Subject it has been attempted to account for it from Habit. It is observed that bustom or Ma. bit has a great Influence on the Animal Oconomy in many bases and it is supposed that its Effects may be extended to the regular Ceturn of Intermit. tents. However specious this may appear at first sight, we shall find it to be false if we consider that in order to any thing becoming habitual it must have continued for some considerable Time and therefore that Habit or Constom can have no influence on the first two on three paroxysms. These however in gen neral are the most regular and the return of the Trits afterwards becomes ince gular, whereas if this return depended upon Custom or Habit, the longer the Disorder lasted the more regular should the paroxy sms become untill at length their return should be as constant as the Motion of a blocks. The Bark should not be used in the Eure of Intermittents untill we

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have restored the Determination of the Bluids to the Skin. We generally fre mise Emeties to the Use of the Bank to produce this Determination to the Sur. face which they will more effectually do if a dose of Landamum be given at they have operated. This produces an universal Relaxation of the Body incre ses the Circulation and hence powerfully promotes Diaphoresis and Sweat. This is seldom perfectly produced immediately, after the first Fit and honce it is customary to let the patient have two or three Fits before we give the Bark It is also very proper to premise Neutrals or Deaphoreties. These will contribute much to shorten the Course of the Disease and render the Cure more certains general we may observe that the autumnal Intermittents are generally atten ded with Debility and putrid Symptoms; the Vernal with Inflammatory Symptoms and may frequently be cured by Bleeding and the antiphlogistics. gimen without the Use of any other Remedy. The Bank is best calculated to the autumnal Intermittents. As soon as a person is seized with the to of an Intermittent he should be put to Bed. During the Gold Fit he should abstain from Drink as much as possible, for every thing he takes then will tend to increase the Weight, Oppression and Restlepuls. If however he has in Inclination to Nomit, he should encourage it by drinking Warm. Water or wen Chamomile Sea. By this Comiting the Fluids which were before accumul ted in the Viscera will be Determined to the Surface and by this the parox you will be greatly relieved. During the Hot wit the patient may drink a dulated diluting Siguons. We should also take a Solution of Sal ammonis in some Neutral Mixture which will tend greatly to produce a Diaphonius shorten the paroxypm. The Head ache which is also very troublesome may be much relieved by throwing a Weil over the Face, which confining the Nexts perspiration is produced there which greatly contributes to the removed of the Head acho. During the Intermission the patient should avoid the use all Good that is very liable to ferment in the Stomach as ripe acessent trits Milk, Cabbage and all Food that is difficult of Digestion as Fish, Satted Meats, Cheese in a Word every thing that tends to produce Tefrigeration as it's termed . His Diet should consist principally of animal Broths and Negetest Substances well boiled. If the patient is troubled with Flatulencies and pains in the Bask and Loins we may give a gentle Burgative.

After we have prevented a paroxypm of an Intermittent the next thing we are to do is to prevent a Relapse. For this purpose the person should take a few Doses of the Bark after the dever has left him, and on the Thor 8th day he should take five or six Doses of Bark as Relapses more frequently hop. pen on the 9th Day than at any other Time. Persons inhabiting a low moist Situation are more subject to Colapses than any others. For these therefore a Change of Air becomes necessary; or if this is not practicable, they should at Least confine themselves to the upper stories of the House Relapses are likewise more common in the autumn than in the Spring. Every thing that tends to wear ken and enervate the Body disposes to them, every thing therefore of this kind il be avoided. Intermittents resembling other Disorders as periodical Cheu. matisms, Intermittents attacking the Face to are all to be cured by the use of the Barko. Tipot's account of this Species of Intermittent is so excellent that from it you can never be at a lofo to know it whenever you meet with it. On account of his judicious Observations on this I would recommend his Book to you as wor. thy of a constant perusal. "The same Cause says he which produces Inc termittent hevers, frequently also occasions disorders which return periodi. cally at the same Hour without shivering, without Heat and often without Quickness of the pulse. Such Disorders generally preserve the Intermissions of Quotidian or Tertean Levers but much seldomer those of quartans. I have seen violent Comitings and reachings to womit with inexpressible anxiety, the severest Oppressions, the most racking bolis dreadful palpitations and excessive Footh aches; pains in the Head and very often an unaccountable pain over one Eye the Eyelid, Eyebrow and Temple of the same lide of the Face with a boldness of that Eye and a continual involuntary trickling of Jears. I have also seen such a prodigious Swelling of the affected part that the Eye projected or stood out above an Inch from the Head covered by the Eyelid which was also considerably inflated or huffed up. all these Malabies begin precisely at the same hour, last about the usual time of a dit and terminating without any sensible Evacuation return exactly at the same How the next day on the next but one? There is but one known Medicine that can effectually opposes this

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this Sort, which is the Bark. Nothing affords Teleif in the Fit and no other Medicine suspends or puts it off. But I have cured some of these Disorders with the Bark and especially those affecting the Eyes which happen oftener than the other forms, after their Duration for several Weeks and after the ineffectual Use of Bleeding, purging Baths, Waters, Blisters and agreat number of other Ale dicines. If a sufficient dose of it be given the next hit is very mild, the second is prevented and I never saw a telapse in these bases which sometimes happen after the Bits of Common on Intermittents seemed cured. "Tipots avis an peuple page 285-6).

The Bank has been unjustly accused of changing Intermittents into did sies, Jaundice and other Disorders owing to Obstructions of the Wiscera Its so far from producing these Disorders, that by curing the Gever, which by continuing for a long time produces them it is the principal Means of preventing them; and when they are produced nothing is more proper for removing

them than this denedy.

The Bark is employed with the retmost advantage in all remittent and intermittent hevers that are accompanied with a puterid Deathers. D' Cleghorn in his Treatise on the Diseases of the Island of Minor co give an account of an Intermittent Sever that prevailed there with evident Symptoms of putrefaction. When the Bank was not given at the firstly termission or Remission the Batient generally died. He therefore carefully watched the Time of Intermission and when the Bank was then given he found that it would succeed in bases that were reckoned desperate. In these Cases the Bark acts as a Mowerful Antiseptic. Whether it is useful als in putrid Tevers that are without Internission is doubtful. It may indeed in these act as an antisepties in the prime Dia; but as it does not enter the Circulation it cannot extend its effects as antiseptic over the System D. Hillary in the Yellow or Ailions Thever of the West andies trusted the bow principally to acidulated deluting Drinks and condemns the use of hea. ting and Stimulating Medicines which are commonly employed as antisepties. We had a remarkable Instance of the Inefficacy of these Med; cines the last time the yellow Fever was imported into this Place. It whole hamily was seezed with this Disorder, Part of which was put when by giving the Bark and other Medicines that are supposed highly antiscptio. All of those however that were under his base died, while the Past of the Tamerily that had no Medical Africance but were left to shift for themselves and who used nothing but Threets and other assent Substances all recovered, not one of them dying. In the beginning of Putrid General It may also be of great Service to prevent theethy persons from taking the Contaments also be of great Service to prevent theathy persons from taking the Contaments are chiefly to be relied upon. They may be accompanied with the Use of the Bark. Here it will answer best in Infusion in Wine as we want only its Unite of the Guelitis with was common here some time ago, which I always considered as a Merocus sweet attended with a greater adeque of putrefaction than what usually accompanies these these some time ago, which I always considered as a Merocus sever attended with a greater adeque of putrefaction than what usually accompanies these Tevers. In this I used the Dinous Infusion or Decotion of Bark and found it prover more service able than any other preparation.

When putrepation is confined to the prime Die the Bark may prove a Valuable Medicine, but when this enters our Body and the Fluids of the Body become affected those Medicines whose action is confined to the prime Die will not answer so well as those which can enter the biren.

lation and prove antiseptic there.

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Bark is indicated in the Hamoptoe and other Hamorrhages. When these are owing to an increased action of the Heart and arteries the use of the Bark is dangerous. But when they are owing to relaxation and Delility the Bark is a safe and useful Remedy. It is employed to prevent the periodical return of Hamorrhages which it does by giving tone to the System and strengthening the relaxed Defeels.

Bark is an excellent Remedy for persons of a weak and feeble Con. stitution and for weakness of any particular part. Chewing to the quantity of an Ounce a Week will be sufficient in these Cases. and in this

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Way it is highly useful to persons that are subject to Inflammation in the Throat upon Exposure to Gold air. The Bark is employed in Bad Men to produce good and landable pus; it acts here by giving Some to the Vepel, and by producing that degree of Inflammation which is absolutely newpay for the Formation of good pus. The Bank, probably from observing its good effects in Meers is employed in Small pox to make the pustules fill and to bring the Disorder to an happy I four. The should employ it inthe Disease immediately after the Eruption of the pustules. It can only be em played with Safety and advantage when the Constitution is so much we kened and debilitated that Nature is unable to struggle with the Disease and would be in danger of sinking in the Contest. Here it will raiset pulse, give Jone to the System and induce a degree of Inflammation proper for the formation of pus. In this base some physicians employ low and even when there is a Delirium. If Retechio and purple Shots of pear we are to have immediate Recourse to the Bank. When there is an Inflammatory Drathesis or when the action of the Heart and artin is too vigorous, the Use of the Bark is certainly highly improped in this base the antiphlogistic Regimen and even Bleeding become newpay The Bark has been used by some in the Suppuratory Fever but its us here seems rather doubtful. This is brought on bythe few being absorbed an carried into the System. The best method is to carry it off by gentle purge tives and to employ acid and antiseptie Drinks.

The Bark has been employed with Succept in Scrophulous Sores and Milers. These are generally owing to Relaxation and Flassidity of the Wepls in the Bart aind unissersal Relaxation of the Wepels in the by. tem in general. The Bark by removing the partial Relaxation and by giving Sone to and strengthening the Tystem in general often proves a valuable Remedy. But as this Disorder is sometimes not to be cured by any Medicine whatever, no Woonder that the Bark sometimes fails to perform a luse. The Bark has been said to cure Cancerous Complaints and if we would trust to the accounts given us by physicians it has even and if we would trust to the accounts given us by physicians it has even cured real Cancers. Probably however an Men of a bad quality may

have been mistaken for a Cancer; and in this the Bark would prove sen viceable; but it is doubtful whether it ever succeeded in a single base ofreal Cancer. On account of its Efficacy in Meers, some have thought of extend. ing the Use of the Bark to internal Ulsers and they have accordingly recom. mended it in Consumptions. In these however it certainly must prove hurt. ful on account of the inflammatory State which almost always accompanies them. It has likewise been recommended in Nephritis Complaints but in this it will answer no better than any other more simple and less stimulating Astringent. The Bark has been highly extolled for the bure of the fout. In our next Lecture we shall speak of the Use of Me. dicines that have been recommended in this Disorder. In the Clickets if accompanied with a proper Regimen and the Use of the Bath the Bark may be employed with great advantage. In this Disease the greatest relaxation takes place which extends even to the Bones so that they become soft and flexible. The patient can never expect to recover perfectly at least with regard to Shape and Fugure: but by a proper use of astringent Medicines with the bold Bath and by living on soled animal Good with a high, dry and cold air. the Disorder may be considerably relieved. (We now come to the Pharmaceutical Ireatment of the Bark. I have already observed that we should give it in Substance if possible and in as large quantities as the Stomach will bear. When the patient either will or cannot take the powder we must give it in onfusion in Relater or in a spirituous vincture. By cold Water we can but extract the astringent Virtues of the Bark but not its Bitterness. By boiling Water it loses its astringency. By Brandy or any Spirituous Men. structon we extract the Bitterness of the Bark but not its astringency. A Vinous Infusion is the weakest of all. With regard to the Species of Bank that has lately been introduced into Practice, it appears from some Experiments made by D. Kentish that the Red Bank as it is called is a stronger Bitter than the Common Jule Bark, it is not or howerful an astringent and is a weaker antiseptie. At

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appears from him that the two are not of the same species as was at first supposed, but that they are different species the of the same Genus. From its being a more powerful Stimulant the Ked Bark is preferable in autumns Intermittents and perhaps in no other base. Whenever we want the astrong gent or antiseptic Effects we must prefer the common or quill Bark Itis said that a species of Bark has lately been discovered in the Island of St. Lucia. A Noat has lately been discovered in the Island of Swinay and It Vincents which is said to rival and even to excell the Bark in the Come of Remittent and Malignant Fevers: I mean the Radix Quapie so called from a Negro named Quasoi who first discovered its Virtues. In him it is likewise falled the Quassi Bitter, It is the strongest and puret Bitter in Mature. It has been employed with great Duccess in all putrid in termittent and Cemittent Severs. D. Warner a Gentleman of extensive practice in the Island of antiqua apures us that he has employed it inthe Cases succepfully even when the Bark had failed. He likewise observes the the patients retain it much better on the Stomach than the Bark Inthe Countries in which it is found, the Inhabitants employ it as a preserva. tive against the dangerous Remittents so common there. It may begin ven either in Substance or Infusion. The Dose in Substance is If to y It yields its Wirtues readily either to Water or Wine. When used as a Preservative a Winous Infusion is generally preferred.

Acordes Nerells or our common Calamus is a stimulant and astringent. It approaches in Virtues to the Beruvian Bark, and was formerly employed in those bases in which we now employ the Bark. a account of its Stimulus it is employed to excite the Appetite and afsist Digestion. It is useful in Colies and Blatulensies arising from Indigestion or from air. It may be useful in the Catavihus Serialis and asking petuitosum by its Stimulus promoting Expertoration. Vallapius telli we that he employed a Decostion of this in thin Wine for a Supprepion of the Urine and assures us that he never feiled of Success. In parely tie affections it may be of Service. It may be given combined with State in a very relaxed Some of the Stomach and in this way it proves more effected.

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Chamapitys or Ground Pine. This with some other Bitters forms the Gout powder, commonly called the Duke of portlands provided. The Composition and Me. thod of using this is as follows; take of the Root of Birthwort and Gentian, the Tops and leaves of Germander, of Bround Bine and Century, each an equal Quantity; reduce them into a fine powder: Of this one drachm is to be taken every morning fasting and nothing to be taken for an hour and a half after it. This Course is to be continued for three Months. after this 3/4 of a Drachm is to be taken for 3 Months longer. During the next 6 Months 3/s is to be taken every Morning. It will then be sufficient to take 3/s every other mor. ming. This Course is to be continued for two years without Intermipion in order to obtain Benefit from it. The Recipe and Method of taking it were her blished by the Duke of portland after he had by the Use of it been freed from a painful Heriditary yout. It was after this used by several persons and it general by proved effectual in preventing the painful teturn of the Sout in Inflamma. tion of the Extremities. It is by no means a newly discovered Medicine, Bitters have for a long time been used for the bure of the yout even by the antients. They distinguished the Goul into the Sanguineous, Bilions and Dituitous from the Mature of the Fluids which they supposed produced the Disog. der In the Sanguineous they used the Sancet freely In the Bilious they also bled and in all, especially the pituitous employed griping, stimula . ting purges . After this they put the patient upon a Course of Stomachic Bit . ters which they generally gave made into an Electrony with honey! Of this Bi or the size of a Harle Mut wasto be taken every morning. This Course was to be continued for a twelvemonth. Every 2 or 3 Months a purge wastibe given. They generally chose to begin this bownse in Spring or Autumn For persons of a colo Phlegmatic Habit of Body the beginning of Spring was preferred. For those of a hot, dry bilious Habit they chose the latter End of aleterne. They did not however administer these to every Constitution in discriminately. They allowed them to be hurtful to those of a hot, bilious Habit and supposed them to be serviceable principally to those of a phlegmatic Habit. They also employed them only in recent bases of bout and thought them unsafe after 5 or 6, or at most Thears after the first attack. In Italy a gout howder was for along time

famous under the Mame of Bulvis principis Mirandula, the Composition which was very much analogous to that of the Duke of Portlands Dowder's England; the they were freed from the painful appearance of the yout in the tremities, they were afflicted with more fatal Disorders than the Gout. Many of them died application as happened to the Duke of Wortland himself a few years ter he had been freed from the pain of the gout. In bullen observed that the same thing happened to 12 Gentlemen who were all that used it in Scotland Dr. Gaubius observed similar Effects in those persons who used this powder in the land Calius Owelianus remarks that those hersons who in his time use the bitter Electuary for the Cure of the yout were generally seized with a Sethang Auton and apopleay, pleurisies Desipneumonies & By the Use of Bitter the Tone of the Homach is destroyed and it seems as if it was incapable of throw. ing the Gout whom the Extremities and thus it falls whom other parts asthe Brains and Lungs or Bowels. A person sometime ago appeared in English who undertook to cure the Gout radically. The Terms were that the Doctor show recieve 300 Guineas one half of which was to be paid upon beginning the Course and the other half in a year at which time the bure was to be com pleted. The late Marquips of Granby put himself under his Care, but before the expiration of the Term appointed the Marquis died apoplectic. From this kin cumstance and from the length of Time necessary to perfect a cure it is is pre. bable his Medicine resembled the Duke of portlands powder. The natural and salutary appearance of the Gout is in the Extremities in a Topical Swelling and Inflammation, nothing therefore should be attempted to remove this unly we could at the same time entirely eradicate the Disorder. This is not to be done by Medicine. Something of the Kind may be done by a proper use of Exercise and a strict legimen, as a milk Diet. This may sometimes were the Disorder but it ought only to be attempted in young persons and those of a strong and healthy Constitution. persons are generally too low and weak when advant in years to bear this Diet. The proximate Cause of this Disorder has been long enquired after, many Opinions have been framed concerning it, but none are sufficient for they will not account for all the phanomena which ou. cur. The most probable is that it is vituated in the Nervous System for were it saturated in the simple Solids or Blieds it could not escape the accurate Enquiries made after it. This is also supported by the Disease being

being brought on by such Things as affect the Nervous System. The Substances which particularly occasions it remains concealed and perhaps ever will. This is further confirmed by the quick Transition of the Gout from one part to ansther. The following base is so remarkable that I will give it to you as it is related in the 1. Notime of the London Medical Observations.

MMajor Rook Surgeon and apotherary in upper Shadwell of about 45 years of ago, a sober temperate Man, accustomed to no disease but the Gout, the returns of the Fits whereof had never been more frequent than once in 12 or 14 Months, about the Month of June 1752 was seized with a very severe paroxysm of the Gout. As I had known some very extraordinary effects proceeding from a Vegetable Diet in that Distemper, particularly in one Gentle. man, who by a total abstinence from all Manner of Good except Cows milk and that without Bread had cured himself of this Disease, and who at the Time Imentioned this to my Friend was in the 13th year of his Milk Diet. Spersuaded M. Rook to try what Wegetables would do forhim he readily complied and entered upon it immediately, with a resolution that if it answered his Expectation he would renounce Flash and Fish forwer But after the most religious abstinence from animal Good of every for eleven Alecks, being visited by a gentle attack in both Feet, he returned imme diately to his animal Good. This paroxyom continued but 40 Hours; but in March 1753 was succeeded by a very severe one in both feet. The pain in his Feet, Heels and ancles increased with great Violence for about 10 on 12 days, till at length he was in the most extreeme agonies, such as he had never felt before and such as almost made him mad. In the Height of this Extremity, the pains to use his own Expression from the treet, Heels and ansles, flew as quick as Lightening directly to the Calves of the Segs, but remaining there not half a minute, and not in the least abating of their extreeme Wiolence this the heet Heels and Uncles were left entirely free from pains from the balves after a short stay of about half a Minute the pains ascended with the same Welvity as before to both the Thight at the same time leaving the Calves of the Sego free: from the Thigh in lef than the space of a minute and as quick as before they arrived at the Aldomen and

and after giving the patient one most severe Twitch in the Bowels they reached the Stomach: here the pains, and here the Fit ended whon the patient wom, ting up about a pint and a half of agreen liguon, agricous, but so extremy corresione that he compared it to the strongest Mineral acids. This extra ordinary brisis happened at about two in the morning, immediately after the Discharge he fell askep and slept till for of and waked perfectly easy in en of his feet, both of which went off gradually so that in two days he was about walk about his Business.

Was less violent than the former and continued for about 6 thecks, during which time he had three encreased paroxysms or distant short this which he had the same critical of which he had the same critical of charge by Pointing of the same Corrosive Matter, preceded by the same uncommon Symptoms as in the fit of 1753. But, mending every hour he was able the very next day to walk and attend his Patients with more ease than after the first mentioned that for the Swelling abated much some ease than after the first mentioned that for the Swelling abated much some

and in three Days Disappeared.

"Thave said that this last sit was attended with three distinct party of Mrs. the last of which ended as above; yet to shew the Disposition of Nature in this case, to throw off the offending Humour in this her new Way it is remarkable that in the two first of these encreased Barogyoms of Wain the fact tent declared terms that he never had the least lase till he had womited, but as there was no translation of pain before these iterrictings there was none of that Corrosive Matter to be discharged; nothing but the common Contents of the stomach was to be seen. These Comitings however provide the patient some ease but the Tit of the Jout went on till the third partof you was over, which ended in the manner related. As the Crisis in this Case is uncommon I must take notice of a Symptom or two which were no left extraor dinary in both the Tits of the Gout. I most profuse dweet attended the patient every morning during the whole Course of the Diverse) Tits which was so offensive and at the same time his Breath so uncommonly stinking, that neither the Patient himself nor though water

waited upon him were never sensible of the like. Distinnen was tinged as if with Saffron and his Urine very high coloured: but upon the Critical Nomitings every one of these Symptoms disappeared with the Disease.

On the 9th December 1755 he was attacked again in one Foot, the Symp-toms however were so very mild that he took no hotice of them to his Family till the 12th from that Day the pain was aggravated and the Swelling greatly increased by walking, and riding in a boach. On the 17th it became extremely violent particularly in the Heel when it instantaneously left the parts affer. ted and in the same manner and with equal Belowity as in the two for = mer thits, it flew into the balves of the Legs, Thigh's land abdomen and when it reached the Stomach it caused him to womit the same kind of Corrosive acid, and the the quantity was no more than a Ceaspoonful he became herfectly well in a few day s. The same Symptoms of feted Urine and offensive Sweats attended the Patient in this short paroxypm asing those of 1753 and 1754: the Sweat continued but two nights and the Wine fetid only 48 hours. As M. Rook had experienced so great and happy Effects from the former Critical Domitings he was greatly dis appoint ted apon finding the quantity evacuated so small, for reason he immediately attempted to increase it by drinking 3 pints of Warm Water / which was at hand) but in vain, for neither that nor the use of his Tinger could provoke to any Evacuation which was begun and finished by Nature For the the quantity evacuated was so very small, yet it was lequally corrosive and produced the same effect and the Discharge must be be counted as truly critical as the others were. During the first of these fits in the year 1762 ahard Tumour had appeared on the side of the Meta. tansus near the middle of the light Foot which continued till after the third Critical Comiting when it was resolved and disappeared upon the Discharge of a viscid matter like the White of an legg, with a few small Chalk stones from the End of the middle soe of the same Foot. This Discharge happened about 4 or 5, days before the patient was seized with a regular but in april 1755. But it is to be remarked, that this

last Tit continued 3 or 4 Weeks and went off in the common Hay without any of the Critical Discharges of Vomiting Urine or sweat, but left on the one hand two on the other three loaded with Chalk Stones, with this pe culiar Symptom, that when the Weather was cold, those Fingers were affected with a most exquisite pain which was always removed by Heat. But not long after this last mentioned bit, a large quantity, of Chalk Stones were extra ted from the bottom of the left Foot near the Ball of the great soe and the from time to time for about 3 or 4 Months. On the of January 1/31 the Wound occasioned by the Chalk Stones being still Open I he was seized with a hever, a Get of the fout came on with the common Symptoms, in bet Feet with frequent Teachings and Domitings, but without bringing upmi than the common Contents of his Stom ach. At this Time an uncommon Itshing in the Bottom of the great doe from whence the Chalk Stones had been extrasted tormented the patient for 5 or 6 Hours. Whon his gent rubbing the part he was very sensible of the Phectuation of some matter a Soon began to flow at first in small quantities from the open Orifice into Ball of the voe. Whon pressing the part about a seasup full of a liquid chalky Matter was collected. The next Morning the patient made a lay Opening with an Imposthume Knife which produced more than half pint of bloody serous Matter full of Chalk Stones which proved as truly critical as the Comitings of Corrosive acid did in the Cases above mention for the Orifice from which the Chalk Stones first i found was very soon heads and the Gentleman continues in perfect Health" I must here make some observations resulting from the above mentioned base. From the Bain the velling so quick it plainly appears that the Gout is a Mervous affection for if it were carried along by means of the Circulation it could not has moved so fast. as the Momiting of the acid was produced immediately as the gout arrived at the Stomach this State of the Thirds must have be instantaneously produced. This acid oveld not have been the banks the Disorder as we find several paroxypus went off without this effect being produced. Unother

and with surprising success. As his patients are upon putting themselves under his bare obliged to take an Oath never to divulge the Method he taked we are unable to discover the Means employed. This much he permits them to relate that the bare is not owing to any Medicine either externally applied or taken internally. It probably is produced by regimen and Exercise & that perhaps applied in a particular manner.

The next Substances we are to consider are Dandelion, Endiver Settuce and Succary. These have been constantly supposed to be of a cooling Nature probably from no other reason than our employing them as Sallads. They have been recommended for resolving Obstructions in the Liver and other Viscera of the abdomen. Boerhaave, Van Swieten and others pay they have employed the expressed Juice of Succory and Dande. Sion in these Cases with good Effects. The succory and Dandelion are possessed of similar Virtues. To produce their Effects properly they should be taken in large quantities and their Use should be persevered in for a considerable time. I have relieved several persons by ordering them to take a Coffee Cup fill of the expressed Juice 2 or 3 times a day.

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Indian Swrrep in its recent State is very acrid and when taken in large quantities it is even said to prove deleterious Staphalin gives us a base of a Homiting of Blood being produced by it. Dr. Storektells us of a Boy who was affected with a violent bardialgia from eating it, of which he died. Dinegar is said to bethe best antidote when it has been taken. It loses its arrimony by boiling or roasting and is then emoployed as Good by the Matives of this extensive Continent. When taken in a moderate Grantity it stimulates the Stomach casites appetite and promotes Digestion and proves serviceable when the peristable Motion is inest and languid. On account of its Divertie Wirtues it is employed in Drop sies, and on account of its hectoral Distues in the asthma pituitoum. It is likewiseemployed in paralytic affections both internally, and ex-

ternally. It is sometimes employed in Intermittents when fresh from 10 to 12 Grains in a fill for a Dose. It has Voirtues only when fresh.

Masterwort afford a good Masticatory for the Rheumatic Toothand Hoffman tells us he employed it in paralytic Affections. The Root powdend is vaid by the Country people in England to cure Intermittents. Mixed with Hogs land it will cure Kingworms. It is a very acrid Stimulus and may be employed wherever such are required.

All the Kinds of Orris are very acrid. The acrimony resides principally in the Root. The Glorentine Tries is a very strong Earhine not only causing Sneezing when taken into the hose best also Inflammation the Mose and Head. Internally taken it proves a very strong Cathartic and is used as an Hydra gogue. On this account it is recommended in the Edinburgh Medical Essays in the Dropey and was used with Succept the Root is to be macerated in Gold Water which the Patient is to ease for common Drinks. For this purpose our common Water Tolag and way very well. This Mr. Colden tells us he has found to be a very strong Cathartic and Divinetio.

Wine is a prowerful Stimulant. The too liberal dise of it like all other & limulants is hurtful by enervating the System and disposing to the Stone and Good. And those pursons who indulge freely in the End pay dear for their short lived Pleasures. If used moderately it excites the action of the Stomach raises the Spirits and banishes Sorrow and Care. But the street like Use of it the person finds himself relaxed and debilitated and feels alt the Inconveniences of lead Disease in proportion as his Spirits were before elevately the use of it. I am not here however to speak of its Mose as a part of Diet but on the consider its Dirtues as a Medicine. Properly administred it may prove an excellent Medicine in many Diseases. It is useful in all Cases of Weakers and Languom It is of Service in Indigestion and Meaking of the Homach Particularly in the Hyporhondriae Disease. It afsists Digistion by earling the Homach into action whom its Contents, and thus we find nothing

more speedily relieves the Oppression from a full Meal than a Glass of gene. rone Wine taken afterit. Di Cadogan thinks that were ought not to be taken with animal Good as it has the property of hardening it and rendering it firm, and resisting putrefaction, but it by nomeans follows that it has this effect in the Body . It is an excellent Medisine and Cordial when the Strength has been exhausted by chronic Diseases. It is also excellent in some Fevers. Fevers are divided into two kinds: 1. Those which are attended with Languor and Debility, and where the action of the Heart and arteries is too low for the hun. hoses lof Life. 2 not The Inflammatory where the action of the Heart and arteries is too Rigorous and exceeds the Standard of Health. Under the former we comprehend all Mervous, Malignant and putrid Fevers. Here Wine is an excellent Remedy, as it resists putrefaction, excites the too lanquid Motion of the Beart and arteries and increases the Strength of the patient Claret is particularly serviceable in those bases. Where Miliary E. suptions appear Wine properly administered so as not to heat the Modey is one of the best Medicines we can employ. It is also highly useful to take off the Restlemes attending these Diseases and for this purpose it is particularly recommended by D. Gilchrist. A Delirium and Tedness of the Eyes are no uncommon Symptoms in Newous Fevers, these are occasioned by a weakened Exculation. Wine therefore by increasing the Circula. thion will be of Service in these bases. The best Criterion to know whether Wine is service able is to observe whether the Heat and Delirium are increased if they are it is to be no longer continued. Wine is also very useful in the last Stage of an Inflammatory Thever in which the Patient is generally weak In the beginning the Use of Wine is improper on account of its increasing the action of the Beart and arteries which is already too vigorous Wine is also employed with advantage in the Small pop. There it acts much in the Dame manner as the Bark With regard to the quantity, to be given, one Bottle a Day will generally be sufficient; but such persons as have been used to a large quantity of it in common must take more than a forson who lises it sharingly or perhaps not at all in Common Diet.

In Whyth used to tell us the base of an Officer labouring under a malignant Small pox who took seven Bottles of Claret a day and was by this cured of his Disorder. The Whine should generally be given in a weak negus or in a diluted Form. It acts by supporting the Ois Vita and as an antispasmodic & antiseptie.

Burgundy Claret and Rhenish are the best antiseptics. The heating Wines as Madeira, Bort, Sherry to are best to preserve against Contagious and Opedemic Severs. Of the Mosefulness of Whine in Contagious Disorders the was a remarkable Instance during the plague at Marseillas, when the play sicians of that place being all dead it became necessary to send for a fresh by fly from Paris. These thinking From was the Contagion spruding determined to keep themselves gay and chearful with Wine. This ty did and by these means preserved themselves and as many as would be prevailed on to pursue the same Method. Their preservation however de pended more upon the antiseptic qualities of the Wine than their high parits.

Malt Siguors are more nutritious more acescent, more laxative and flatulent than Wine. Shey, are very proper for the loure and preservation from the Sourcey. Where there is a Debility of the Organs of Digestion that are estreenly hurtful causing Glatulencies, Spasms and the whole Train of Evils attending Indigestions and acescent Germantations in the Sto.

mach.

Animal Stimulants. These are but few as Animals are made up of mild, bland Substances and are themselves of a mild nature. Some of the secreted Thuids are however of an acrid Mature, the shall be mentioned under the Bead of Evacuants. The most power animal Stimulant is the

Cantharides. These are commonly employed in external applications. I show their acrimony they stimulate and inflame the Skin and in consequence of this raise Blisters. I shall here only treat of their Operation when taken internally. The Ancients with Hippocrates supposed

the arimony to be lodged in the Head, Wings and Seet and according. by deprived them of them that they might give them with more safety but this is a lorong Notion for the acrimony is found to be lodged in one but as much as another . Cantharides were employed for internal purposes Sefore they were employed externally, tho' by many they were considered as dangerous and improper for our Frame. Hipporrates employed them in Hydropic bases and as a persay to promote the menstrual Discharge. They are found to have a particular tendency to the Urinary passages and even ocrasion a Discharge of Blood from these parts with great Inflammation. Dr. Grainger in the Edinburgh Medical Essays recommends a Combination on of Cantharides and alkaline Salts in the Dropsy, he likewise recom. mends them in inveterate yests. Groenwelt employed them in Ulcers of the Ridneys and Bladder in the yout and in Calculous Concretions in the Kidneys: he always combined Camphor with them. In large Doses they are very hurtful and will even prove fatal by exciting a violent Inflammation in the Coophagus, Stomach and Intestines. They will also occasion bloody Wrine, a violent Strangury and exection of the penis. Torestus gives us a lase of a person who from taking a large Dose of lan. thanides had a continued Exection of the Penis, a swelling of the Sorotum and a discharge of Blood which destroyed the Patient. In moderate Doses they do not affect the Stomach and Intertines but stimulate the Winary papages. This seems to be owing to their being kept in a diffused State before they avine at the Urinary passages, where from their connection to a particular part of the Blood they are in a manner consentrated and thus can act more powerfully. This seems to be confirmed from their not always affecting the Kidneys when given in a dilute Form, whereas grafs. in Substance will sometimes produce a Strangury. But even in Substance they, do not always prove diviretie and when they have this of feet it is more by Chance than design. In Nephritic Cases they must be hurtful on account of the Inflammation which they excite. They are said to be reseful sometimes in stopping gleets and in the Theor albus,

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of dust

which they do by exciting an Inflammation in the Parts; but their Effects here are doubtful as we cannot determine the Degree of Inflammation. On account of their Divietie Qualities they have been supposed Diaphoretic and hence they have been recommended by Dr. Mead in the Seprosy, I can expect no great Effects from them in this base. They have also been supposed expectorant and therefore were employed by D. Burton in the Chincough and by D. Let, som. Burton always employed Back, Camphon and some Opium with them to prevent their bad Exects which certainly were of more Service thants Cantharides. They are at best a precarious and in many bases a dang Tous Remedy and indeed they should never be used where we can get any other Remedy to answer our purpose.

Millepedes have been employed for various disorders. Dias covides emply ed them as divieties in the Dropsy and Obstructions of the Viscera, Jaundin Boyle says the Use of them will sharpen and clear the Eyesight and will a, move the first Symptoms of Cataract. They have been recommended in buy pressions of Urine and in Constrictions of the Kidneys owing to calculate Concretions, where they are supposed even to destroy the stone.

These Insects contain a Stimulus of the same undetermined Nature as Cantharides, to which however they are vastly inferior in power . I have seen them exhibited in the Chlorosis and Scrophula for a sufficient length of Time without observing any considerable or certain Effects from them. They have been employed in low Mervous Fevers, but if they have any Effects they are imperceptible: if any Effect is produced it is entirely owing to the Wine in which the Insects are taken. They are given in Substance from 3/s to 3ij for a Dose or the expressed Juice of 50 or 60 animals is owallowed in a glass of wine.

Cochineal professes no great Effects as a Medicine. It is said to be diaphoretis, but very large Doses are required to produce this Effect Dr. Lister recommends them in the Schuria. Dale considers them as alexipharmic. Their only Use is to give an agreeable Colour to our Hormula.

Olipers

Tipers have been employed for the bure of various Disorders and our Rattlesnake also for the same. They have been employed in Disorders of the Skin as in the Elephantiasis. Meed recommends them in Seprosy. The powder, Wine and Broth of Dipers have been used in the Joundie and other Obstructions of the Viscera. They are not entitled to a preference in these bases as they possess no superior Virtues. Hoffman says he found himself disappointed when he used Wipers. The Wolatile Salt is said to prevent the bad effects of the Bite if taken in the quantity of 3j in the Broth It has no other effect than here Volatile alkali would have. The hat is said to be useful in Disorders of the Eyes. It is an Ingredient in Sir Hans Stoanes Ointment . It is also vaid to cure the Bite of the animal if rubbed on the Wound. Oil of almonds on any other Oil will answer full as well. The Broth is recommended as a high restorative and fine Mourishment. It affords an alkalescent rich Nourishment and may be useful in related weak Stomachs. The Rattles nake is hopefred of the same Wirtues - Tile now proceed to general Characters.

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Nutrientid as Stimulants. Whatever increases Motion may be considered as a Stimulant. These as adding Strength to the Solids increase their Oscillations and as increasing the quantity of Philids increase the Sension. They are therefore by their action on the Stomark mesessay in the Hypochondrias Arthritic and Hysteric Complaints when the action of the System is diminished. When there is so great an action of the Heart and arteries as in Inflammations they are hurtful.

Sedatives as Stimulants. These are generally in their first Operation Stimulant. Next

Acides as Sumulants. The the Effects of these are Sedative, yet like other Sedatives they are very probably Stimulant in their first Operantion.

alkalines are in every respect Stimulant but are not to be considered in that sense alone. They prove a considerable Stimulus to the animal Fibres. Neutral Neutral Salts are both Sedative and Stimulant. Let me how to peat a Caution; never to be too free in the Alse of Stimulants lest they? besome habitual to the Body and at length destroy the Vone of the him of the whole System and in Particular of the Stomash.

We shall next treat of the Gold Bath which the different from all Stimulants may be properly enough brought in under this Head The Use of the bold Bath seems to have been coval with Man. The ear. lest assounts we have of it are contained in the Writings of Homer and in the Scriptures. We learn from Virgil and Claudian that it was a common practice among the ancient Stalians and Germans to plump their Children as soon as they were born into the Gold Water of their Chan This practice still prevails among some of the Morthern Nations of Europe The Russians and Finlanders after heating themselves in their Nowlong will plunge haked into the Snow and entirely cover their Bodies with it to render themselves hardy. Thus far however the Use of the bold Bath was practised solely to invigorate the Body by Persons in Hear The Use of it in Medicine was not known untill the sime of hippor. crates who first properly distinguished the Warm and Cold Bath and laid down some Differences between Salt and Fresh Water to Romans who received not only their manners and Laws but als Medicine from the greeks, received with it the Use of the bold but It was not however brought into general Use untill antonices Much at that time first John sician in Rome cured the Emperor Augus. tus by the Use of the bold Bath, after he had tried other Remedies the Warm Bath without effect, of a long and tedious Illness, Which from the Symptoms delivered to us by Suctionius and others appear to have been of the Hyposhondrias Kind. For this purpose Anto: nices was raised to the Equestrian Dignity, had a Golden King

put whom his Finger, received considerable presents of Money from the Senate and people of Rome, and besides a Statue was creeted to his Mems. ry, and he obtained for all the physicians an exemption from paying Gribute. From this is derived the practice which obtains in some Uni: versities of putting a Golden King whon the Finger of every person who receives a Doctor's Degree in Medicine; and to this Day in some Coun. tries Pohysicians are exempted from paying Caxes and from Military Duty. After this Simo the Use of the bold Bath became general at Rome, and the Warm Bath which was formerly much employed was entirely neglected. All Writers both ancient and Modern have been full in Commendation of this Clemedy. I shall consider the Cold Bath under three Heads. First. What Waters are employed, what Choice is to be made, in what manner and how long it is to be applied - Many prefer Salt Water to bresh the Reason of Which is not very obvious; the only one that can be assigned is that the Salt will fix whom the Skin and stimulate more strongly. Salt Water may also more effectually wash off the Mucus from the Skin than fresh. That Salt does fix upon the Skin appears from this that the Skin of Children who are frequently dipt in Salt Water is salt to the Jaste. Di Rufsell in his Treatise de Jake Glandularum informs us that after his Scrophulous Patients with Ulcers had bathed in the Sea

The was obliged to let them desist till the Ulsers were healed up.

When we want Water merely for its Coldness Spring and Dump

Whater are to be preserved as they are always colder than Sea Water. When

we want a continued Stimulus applied Salt Water is to be preserved

and this Case it must be suffered to dry upon the Skin without wi.

ping it.

There are two Methods of applying the Gold Bath: 1 When the person jumps into the Water 2 no the Shower Bath or when the Water is raised to a certain Height and let fall upon the person.

There is no great difference in the Effects produced by these two Methods of cept that in the Shower Bath, by raising or lowering the Machine we may increase or diminish the force of perculsion at pleasure: we may also give to the Water in the Shower Bath what Degree of Beat we please, or may a Salt when we please.

It when we please. The Skin has such a Sympathy with all the parts of the Body that when ever this is either agreeably or disagreeably affected, the same effect is produce in the other parts also. The Human Body is disagreeably affected whom the sudden application of Gold Water; the Nefsels upon its Surface are constru ted and the Blood is driven to the internal parts, hence the external parts appear hale; the breathing becomes difficult and deep; the Blood stime lates the Heart and arteries and the Circulation over the whole Body is in. creased; hence the bold and Shivering which were produced by the bold Evater are succeeded by a flow of Heat, the pulse becomes full and frequent the Mind is rendered serene and chearful and if the application of this a medy is continued for a sufficient length of time, the Murcles are made firm and hard and all the Functions of the Body, are performed in a better manner than before and persons are rendered much less liable to Colds and Complaints arising from sudden Changes of the Weather. We should not remain too long in the Water at a time, for in this base nature will not be able to overcome the spasm and there is danger of some of the Repels in some of the internal parts being broken. We may know that the application has been continued long enough if immediately after coming out, the Body is suffused with a Glow of Heat and Redness . proper State of the Body is necessary that the Gold Bath may produce its proper effects. It will be more useful when the person is not cold when he enters.

Secondly. We are in the next place to explain how the Gold Bath pu Observations on the Nature of the Body.

The Theman Body is divided by Pathologists into 3 parts; The Illieds, Solida viva and Simple Solids. It is necessary that the Gold Bath whould act upon some one of these. First of the Action of the Gold Bath whom the vimple Solids. The prevailing Opinion is that the Gold Bath acts upon the animal Frame in the vame manner as Gold operates upon inanimate Bo. dies by constringing or condensing them and thus increasing the Cohesian and Simmels of the simple Fibres. But Gold externally applied cannot penetrate to the internal parts which retain their natural Heat the the Surface of the Skin may be somewhat construited and as it does not retain its Heat may be condensed. Secondly; with regard to the Pluids; Gold cannot affect them in any other manner than it so far as it affects the ressels upon the Skin by producing a Construction upon them. But this left is owing entirely to their sensibility therefore the action of the bold. Bath is when the Solida viva or moving Fibres. I shall now endeavour to explain how the Gold Bath acts upon the moving Fibres.

there is necessarily required a proper sension or Tone of the Parts; for too great Laxety or too great Higidity are equally injurious. Before I proceed to shew the action of the Gold Bath on the Moving Ribres, I shall make a few Observations on this vension and from it shall endeav our to explain some phanomena in our System. In the Muscular System the Tebresew kept Jense by the Weight of the parts by their antagonist Muscles andly the parts which they surround. The Gullness of the Bloodvessels contributes also to this Jension of the Muscles; for we observe that the Muscles become relaxed from profuse Hamorrhages by which the Dessels are emptied seed: denly. Therefore the Muscular System is not only in itself tense but also owns part of its vension to the Sanguiferous Dessels.

In the Mascular System there is also Tension not only in the Systole but al. so in the Diastole of the Heart, for even after Death when the action of the Heart ceases the arteries are contracted sufficiently to propel the Blood.

From this Tension different Effects of Benesection can be explained much more readily than from the Doctrine of Derivation and Revulsion; for it is evidently from the least Change of this Insion very evident Effects must be produced in our System. In Cases of Violent Spasm, Bleeding relieved by the leasation which it produces. The Ancients used to bleed untill fainting war casioned in Inflammations of the Intestines to. The good Effects in this base are owing to the Universals Celaration in duced by which the Obstruction who causes the Inflammation is taken off.

But neither the extending powers of the Tibres nor the distending power in the Sanguiferous System sufficiently account for the Tension of our Grame. To these we must add the natural Contractility which partly to be referred to Clasticity of the Tibres, but principally to the infla

of the nervous power.

This Contractility obtains only in the living Body and ceases after Death. The Tension of the Body is in exact proportion to the nervous Informary Cause of Tension varies considerably. So that Tension depute upon extending and distending powers and upon that Tonic power of a tractility of the System. There are some parts of the Body in which the extending power has no Influence or if any it is very different from that which it exerts in other parts. An Instance of this we have in the Stomesh and Intestinal Canal; to which there are no antagonist Muscles nor any Counterbalance. The Tension therefore in this Case depends upon the Contractility and Jonic power and also in some measure upon the Distention of the Blood Vefsels. This part therefore is more subject to variation than any the part of the Body.

The State of Tension in the alimentary Canal has a considerable fluence upon the Tension of the Test of the Body. Thus if the Stomach has been used to take any Stimulus, which increases the Sone, at a certain How, when that Stimulus is deviced the Stomach is relaxed and Relaxation is communicated to the whole System. For Instancial a pewor has been used to take a Dram at a certain Sime, when this Time return

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he feels a Weakness over the Whole Body. The palpitation of the Heart shows the Sanguiserous System to be affected and the Tremor of the Muscles de: monstrates them to be in the like manner affected. As soon as the Dram is swallowed all these Symptoms vanish and the System recovers Tension. This Debility or Absence of Tension is produced also when a person is deni. ed his Food at the usual time.

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In the same manner if the alimentary Canal is distended with a small quantity of air the whole Body is considerably affected; as soon as the air is expelled it recovers its former State. But as the Stomach has a great Influence on the rest of the Body and produces various affections, so on the other hand the stomach is variously affected by affections of different parts of the Body, but more especially by affections of the Surface or Skin. as this is the largest Organ of Sense it is furnished with a vast number of Nerves which are easily irritated. Sanctorices observes how much the State of the Mind and internal Functions depend whom the State of the Superfixies. There is no part of the Body but what may be affected in various manners by this Tension and there are many appearances which can be explained only on this principle. Dr Whytt in his excellent Book on Mervous Disorders has a base of a bonvulsive bough which was brought on by the least Change in the position of the Body or even by dipping the Hands or Sect in bold Water: this can scarcely be explain ned except from the Change of Sension produced. A Blister applied upon any part of the Body willin a short time affect the whole bys. tem with its Stimulus. Is it not probable that this is produced by the Increase of Tension. Wele often see Men in Anger, who at other times are weak, perform Herculean Feats. This is scarcely explicable unless we suppose the newous Flux increases the Tension. a person maker a full Inspiration when he attempts to lift any thing, by which the Muscles are rendered lense and their Force is increased.

Terror suddenly relaxes the Body and causes a person to lose his thing the ever so strong at other times, as if deprived of it by a Charm.

It is commonly believed that Warm Bathing of the feet produced its effects by Derivation, but its action can be much better explained if the suppose that it consists in taking of Gension, relaxing the part to which it is applied, which Relaxation from themse is communicated to the rest of the System. We may therefore on the other hand readily up pose that the bold Bath acts by increasing the Tension; by which we know that Heat and bold produce entirely opposite Effects. We may have conclude that there is necessarily a Tension belonging to the Body, and when ever this errs either on the Side of Rigidity or Laxity the Body is now or less in a diseased State.

The bold Bath is more particularly serviceable in Diseases arising for Laxity. By this the Sensibility and Irritability of the Body is increased Women and Children whose Bodies are lax have a very irritable nervous System. They are therefore more subject to the Dis orders called Nervous from which the most robust remain free. The Baron Wan Swieten re. lates the base of a young Lady who from a particular Delicacy of the Men vous System was thrown into Convulsions by any Irritation. The was ordered to have her Legs, thighs and abdomen kept light with Banda ges and she was by these means cured. The seldom see strong Men hysteric or epileptic unless they have been affected with these Disorday in their Infancy. Medicines which take off this Irritability cureth Disease. The Bellies of Muscles because they are more lap aremon sessible than the Tendons; the Uniter times than the Coats of the arteries From what has been said it will appear that the Gold Bath acts upon the Solida viva namely by producing a proper Degree of Sem. sion which it seems to do by promoting the equable and fust influe of the Newous power. an example will render this plain: In De. liquio anime or fainting where there appears to be universal Clelapation

Relaxation, the nervous Influx into the Ulital Organs is stopped whence the whole Body is affected; whon sprinkling a little bold Water upon the Frace or applying other Stimuli the Merries are stimulated and excited into action and the Patient is generally recovered.

fraise in the bure of those Disorders which are commonly called New ous. We shall next consider in what Disorders it is to be employed and in what

rejected

In the Aysteria, Epilepsy and other Disorder of this kind where there is too great Mobility of the Body the Gold Bath produces the most happy Effects. Mobility or Irritability of the Nervous System is the most prequent predishorsing bause of these Disorders which are produced by the slightest occasional Cause. The Use of the bold Bath in Hysteria may be inferred from this, that this List order more prequently occurs in warm than cold blimates and Women affected with it often find themselves better in Winter than in Summer.

The Dypochondriasis, a Disease which is frequently confounded with Tys. tena is rather a Disease of bold than of Warm Chimates and when it occurs the Habit of Dody inclines to Rigidity. On this account the bold Bath sel-dom proves useful in this Disorder unless in the single base where these

two Diseases are complicated.

Children are very subject to Epilepsy especially if their Habit of Body inclines to laxity, the use of the Gold Bath is therefore very good for them. Palsy seems to arise from the improper Influe of the Nervous Bown into the Muscles of the part affected. The Cause of this it is very difficult to explain Whatever will restore this Influe will remove the Disease. The illustrious Wan Swriten has Instances of persons affected with the Palsy being cure by an intermittent Gever coming on. As the Effects of Gold Bathing very much resemble the paroxysm of an Intermittent this bids fair to be of service in this Case. D. Baynard in his appendix to Sir Johnston, ers Treatise on Gold Bathing gives a very pretty Instance of its esseptimes in this Complaint. This luse was related to him by D. Blair: ABoy of in this Complaint.

therteen years of age was seized with a paraplegia; various Medicines were employed for it in vain, untill he got something better by the use of the Gold Bath. Bythe advice of Dr. Pitcain the Boy was placed under a fall of Water 12 or 13 feet high repeatedly, and by this he recovered his former Health and alacrity. Se Dran has two Instances of palsy being happily cured by Water falling from a height on the parts affected. Madness has been frequently cured by the Gold Bath, Instances of which Occur in Van Helmont Gloyer and other Authors.

Physicians are not yet agreed concerning the proximate Cause of Intermittent Gevers. It appears most probably to be lodged in the Mervous System for their Severs are produced and removed by affections of the Mind. They was times resemble the Apoplery, the Epilepsy, Convulsions and sometimes the type terio Disease. Storch gives us the Case of a young Man whom it seize in form of an Amaurosis. Senae mentions the Case of a Moman who was taken with a fit of Loquacity whenever the But came on.

being cured by the Gold Bath. Dr. Donald Monro tells us from Dr. Ma. son of an Intermittent Gever being completely cured by throwing the person suddenly and unexpectedly into a pond. Busham in his first solume of the bonditution of the air (page 25 / has these Words:

"her panitendo utique eventu, tune temporis, Balneum frigidum communidari; pracipue convalescentibus ab intermittente rebelli; ad fibrarum nem pe tonum restituendem et humores lentos comminuendos. It ine didicita. dem quantum frotest tale remedium, ubi vix alia proficit methodus idque nonnunquam in pertinaca quartana. Horum hor foran et inauditum mini vero probe expertum."

This Remedy has been recommended in ardent Flevers by Galen Clertius and Alexander Grallianus; nor are there Instances wanting in later time of the was of the Gold Bath in these Jevers. Thomas Willis has given us a curious base: A ftrong young Woman laboured under a dever with a high

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high Degree of Delirium. Ofter many Temedies had been tried to no purpose he ordered her to be thrown into the River and kept there for a quarter of an hour after she was taken out she was put to bed and a plentifull sweat coming on she was cured.

Joh. Gottl. de Hahn not De Haen who afterwards made a Frigure at Vien. ma) in the 10 Nol. of the acta physico. medica describes an Epidemie which reaged at Breslaw in the Spring, 1737 against which medicine had no effect. Be judiciously at length used the bold Bath by the Use of which the Dison. der was happily cured. By the Use of this Remedy De Hahn himself was cured of this Disease. Joh. Sig. De Hahn Son of the former, in a Book written in the German Sanguage on the Use of bold Wester recommends the Use of bold Bathing in Severs, and if the Strength of the patient will ad. mit advises him to be plunged into Water and that it should be applied in no other Manner.

Tipot in his Treatise on Bilions Tevers relates that he cured a Man whose abdomen was much Distended by Cloths dipped in Cold Water externally applied.

The American Indians cure various disorders by heating their baling and whilst in a Sweat throw themselves into a River, after they come out they go back again to their babins where they Sweat again and frequently recover but as they employ this practice promiscuously in every Seven and every stage of Sever, it is no wonder that it often proves fatal. We learn from authors that the ancient Greeks and Germans employed the bold Bath in the same manner as our Indians.

The Chronic Head ache is a Disease which, to the reproach of Phy. sirians often proves very tedious. This may be owing to various Causes. Cold Bathing has been for ages recommended in this Disorder and Celsus says nothing is more useful to the Head than Cold Water. Baynard, Thoyer and others give us cases of the Efficary of this Remedy is this Disease. Do others give us cases of the Efficary of this Remedy is this Disease. Do OBergius gives us a Case of a person troubled for a long Time with a chronic

Chronic Head ache, who after Setons in the Meck and inumerable the Remedies had been employed to no purpose, was perfectly acred by the bold Bath. In chronic Rheumatisms the bold Bath is extreemely useful. We know that this is not confined to the Joints but attacks different particularly the Head and Teeth. In these bases the bold Bath is as serviceable as when the Disease is confined to the Joints and often succeeds after all the other Temedies have failed.

The bold Bath has been famous for the love of arthritic Complaint from the Day's of Hippocrates. Floyer and Barnard have Instances of Men who resovered by the use of this Remedy who were lame withthe Gout. Bartholine gives the Case of a Danish Count who cured himself of the Gout by putting his Feet in Gold Edater and even I now. This is a pre carious Remedy during the paroxysm, as there is a Danger of the Gout being repelled into some of the interior parts and there producing many Evils But during the Intervals there is no Danger. There is agreat Similarity be. tween the yout and the gravel and they are to be treated whon the same principles. Many have experienced the Good Effects of Gold Bathing in Calculous Concretions. Mercurialis tells us he was cured of the Stonein the Kidneys by bathing in the River Urno mear pisa! Berguis relatesth lease of a Lady who for 20 years had laboured under a Stone in the Kidneys by which she was become very ill, for by the constant I ruitation she had acquired a great Mobility of the Nervous System, She had sometime a Morniting, a Constant Mumbrels of the Thighs with a violent pain in the small of the Back: there are pathognomonic signs of the Stone in the Mid. neys. For seven years she used the bold Bath and at the same time Drank Cold Water, by which means all those Symptoms were removed and she afterwards lived in good Health for many years. She discharged small ball culi in great quantities with her wine whon drinking the Gold Mater and constantly when she used the Gold Bath the pain was aggravated for about six Weeks, after which time she grew better and she remained totally

well untill the next Summer for this remedy was used only in Summer. A laxity of the Kidney's appears often to be the predisposing bause of the Stone, or at least this is very soon produced after the generation of a Stone which appears to happen in the following manner. When a particle of Sand is first deposited in the kidneys it stimulates them to evacuate it by the Urine. This irritation frequently repeated relaxes the Ridneys whence they can no longer cast off the Sand. Here therefore Gold Bathing will be of great Service; for it not only strengthens the Ridneys in common with the rest of the System, but gives them sension, particularly from the Consent between them and the Surface of the Body. Hence the Collection and Concretion of Sand in them is prevented; and if any is already, collected they are stimulated to expel it. If it does not produce this Effect it will still be of Service by rendering the Body les ivitable.

In Inability of retaining the Urino may arise from various Causes When it is owing to a Debility of the Sphinter, bold Bathing is the only Remedy and it has been recommended in this base by paules Agineta By retaining the Urine too long the Bladder is ourstretched and is not able to word the Urine: in this Case Gold Bathing is the best temedy. The Bladder in this Case probably labours under a Paralytic affection alm nosturnal pollution which most generally accompanies the Hypochondri. asis bold Bathing is much recommended by Silot. In involuntary Discharge of Semen arising from the Vesicula Teminales is also stopped

by this Comedy.

In a discharge of Muns from the Methra whether succeeding to a Gonorhea virulenta or arising from any other Cause the bold Bath is the best Remedy on this base there appears to be a Debility of the prostrate and other Glands which secrete the Mucus. Hence we readily persieve the Use of the Gold Bath.

In chronis Colies, Gold Bathing is an excellent Kemedy. Bays nand gives us the Case of a Merchant who had been direfully exof this Remedy he recovered his former Health and plumpness.

Stevenson in the Edinburgh Medical Essays gives Instances of the Ulilly of the Cold Bath in obstinate Costweness, after other remedies have failed.

Persons who use a great load of Cloaths and other means by which the dy is left too warm, are more obnoxious to bold than any others. Whenever are verzed with more diseases arising from bold as batarchs, boughs law Tooth ach, Cheumatism Intermittent Levers, pleurisy and the like. To obnite this Habit, to strengthen the Body and render it less susceptible of bold me Medicine bids faires for a preference than the bold Bath. Baymard the the base of D. Cyprianus, who, be too great a quantity of Cloathing his rendered his Body so sensible to bold that he could not walk out even bummer without his bloak, nor was he by these means kept free from due ders. He was cured of this bad practice by the bold Bath. Bergius gow us a similar Instance of a Man who from his Youth had been used to we a Bur bapi, by which his Head became so tender, that he could not beat least Blast of which his Head became so tender, that he could not beat least Blast of which his Head became so tender, that he could not beat the greatest Inconveniences from this bircumstance. By the Use of the bold Bath he got relieved of this bad Habit.

She bold Bath is very service able to Children not only to prevent but a so to cure many of the Diseases to which they are subject. Since the Time of D. Harris it has been generally supposed by physicians that the Diseases Children were owing to an Acidity in the prima Dia and hence to be come by Magnesia to. But this seems rather too general for by the Use of May mesia, or other absorbents we may in a short time remove all the Acid, both Disease continues nevertheless. A Weakness of the Stomach and Disease of the Chylopoietic Viscera will we know, generate Reidity, but this air appears rather to be the Effect than the Cause of this Disease. To me it of pears probable that most of the Diseases of Children are owing to larth of the Solida viva in general and of the Som ash in particular and with ever will restore Strength and tension will most certainly contribute to wing

curing the Disease produced by the want of it; and hence the Gold Bath and Back are of more effect than all the absorbent powders we can give In the Rickets a Debility of the Solida Viva renders the Uepels of the perior term and battilages unfit for depositing bony Matter. Cold Ba. thing by strengthening the Body and giving it tone removes the Cause & with it the Disease also, and is indeed the only ternedy on which we can rely. Besides the Casas already mentioned there are many others in which the Gold Bath may be used with success. We are now to mention those Cases in which Cold Bathing is attended

with dubious effects if not absolutely hurtful.

It was observed above, that by giving Jension to the Body it provid serviceable in bases of Laxity, whence it will appear on the Contrary that it must be attended with bad Convequences where Tension and Rigidity are alread dy too great . Dence Huxham relates the base of a Man who from too great We of the Cold Bath had suffered many Inconveniences of which he was an red by remedies which restored the proper Degree of Laxity to the Body. In Athisis pulmonalis a Disease very difficult of Cure, the bold Bath amongst various other Cemedies has been exhibited and if we may be lieve Authors not without Success. But a priori we should suppose the bold Bath to be a doubtful if not a pernicious Remedy not only in Consumption but also in persons predisposed to it Consumption is frequent. by brought on by an hamoptoe and in Consumptive Habits there is al ways danger of an Homoptoe happening; hence therefore severy thing that tends to drive the Blood to the Sungs must be injurious. probably the Cold Bath has been thought useful in Consumptions from not paying proper attention to the Disease I have read of many bases of persons said to labour under Consumptions and who were cured by the Gold Bath; but I much doubt that they were consumptive. Tile know that persons labouring under the Hypochondriasis Hysterica always complain of a pain in their Breasts and suppose themselves to be really consumptive do not sumptive, nothelst all persons almost who are really consumptive do not believe they are so. There is indeed some Similarity between the two Signatures and Opprepion at the Breast often a difficulty of Brea. Thing with a slight bough resembling that in the Consumption and of ten a slight fever after Meals. To their may be added a wasting of the and some Degree of Saxity In such a Case the Cold Bath is eahlite with the best Effects, In such a Case the physician as well as the Pati. Ent will suppose the Disease to have been a Consumption. In the Consumption In the Consumption of the Consumption of the Consumption where any other Central Consumption and perhaps to every Hamorrhage.

the Effects of Cold Clater applied only to the Breast is not sufficiently known. It is hurtful in every Inflammation by increasing the action of the arteries and producing Obstruction. We may observe that the Inflammatory Disorders may generally attack the Roberst and rigid than those of a weak Constitution and of a last Habit: Cold Bathing is therefore hurtful. We should be very careful how we resommend it to plathoris patients Cold Bathing is he commended by the Antients for Eruptions on the Skin. But experience does not confirm its use.

Linnous tells us in the Arokholm Transactions, that the Epilepsy is almost endemic to the Inhabitants of Scania and Smolandia which ascribes to the persicious bustom of washing the Heads of their Children of feeted with the vinew with bold Water for by this he supposes the airie Matter which should be expelled from the System is driven to the intend parts.

Sedatives.

Sedatives.

These in Opposition to Stimulants are such Substances as diminish the Motions of the System and the Horce of the moving power. In bullen has so fully treated the Operation of this blass of Medicines that I entirely refer you to him. I shall only consider some of the particular cleadaines. Many Substances may act as Sedative and may probably differ in their Mode of Operation, but we are probably acquainted with only a few. Of these the principal one is

Opium.

This is one of the most important Articles of the Materia Medica and deserves a particular attention; it is undoubtedly a Medicine of considerable Efficacy and power. The shall consider it as fully as the Mature of the Subject and our plan will permit, and endeauour to point out the as vantages and Disadvantages of its Mis. There have at all times been very different Opinions concerning the action and Effects of this Medicine, and many ingenious attempts have been made to ascertain the Effects and mode of Operation of it, and there are almost as many Opinions asloni. ters on the Subject. The Opinions of physicians on this Head are so contradictory, that we would almost be led to suppose that they wrote more to shew their Ingeneity than to make any additions to the stock of Medical Knowledge. The ancients ascribed the astion of most Medicines to a heating or cooling quality. The greater part of them as Diasco. rides, Galento supposed that Opium acted by its refrigerating power. Plato Wedelius and others on the Contrary ascribed its Exits to its hear ting quality. Some have combined there two Opinions and suppose it acts both by heating and booling, heating in its first Operation and fact of Opium in which its Virtue resides. Hoffman Noffman

Arfman, Willis and others attribute its soporific qualities to a certain sulphureous principle. Pitcairne to supposed they are owing to wolatile alkaline Salt. It is sufficient barely to mention these Opinions to it is not necessary to shend any time in shewing their aboundity. If mon consequence are the two following questions. 1. Morn what part Opium principally exerts its Effects? Whether it acts first upon the Blood rarefus it and increases its Bulk, and by this distends the Nepoles of the Brains produces Compression there, by which the Mervous Influx into the different parts is prevented? or whether it acts upon and affect directly the Nerves only? 2000 Whether it excites the action of the Heart and article and increases the animal Heat? or whether it diminishes the Body.

With regard to the first Question there have been many respectable writers on both sides. Many ingenious arguments have been offered in favour of the action of Opium being whon the Blood. These are all summed up by Trallis in his Treatise on Opium. He allows that Opium may som. times primarily affect the Merves but supposes that it principally affect the Blood rarifying tand increasing, its. Bulks. If we consider the went Quantity of Opium taken at a Dove and that the smaller part of this quan tity is active, for from Neuman's Experiments it appears that in in toj of Opium not more than Zij are popefied of any Wirtues, we shall conclude that it cannot possibly have any Effect in rarifying and increasing the who Mass of Blood which in the Guman Body is said to amount from 25 to 30 pounds. Van Swieten observes that Opium is not easily solubled remains for a long time in the Stomach, and he says it is no uncommon Circumstance after a person has sleft all night after taking Opium for the fill to be thrown up next morning un dissolved. Dere it certainly can have no effect in rarefying the Humours and must produce its Effects enterely by acting on the internal Surface of the Stomach. These a.

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Arguments sufficiently refute the Motion of Opium acting by ranifying the Blood. But there are others if possible more strong and convincing. If one grain of Opium will rarefy our Gluids, to what an amazing Bulk would two or three drachme increase them, which quantity we know is often taken by the burks in one Day. The Effects of Habit can be of no Service to the Bav owners of this Opinion, for the Habit will lesson the Effects of any Medicine on the moving Fibres yet we know it can have no influence on the Fluids.

Haller supposes that Opium instead of thinning the Blood acts by increasing its Discidity. But this Opinion is equally evroneous, and the same Objections may be made to it as to the other. The Cavourers of the former Opinion tell us that the Blood of Jurks slain in Battle is much thinner than that of persons not accustomed to the use of this Drug, and they look whom this as an infallible argument of the ar. tion of Opium on the Blood. But granting this Fast to be true, this many difficulties may occur with regard to this being the base, the Con. sequence which they endeavour to deduce from it does not at all follow, for it by no means proves that Opium disolves the Blood allthat we can justly infer from it is that the long continued Use of Opium greatly debilitates the Organs of Chylification. At is likewise afserted that Opium when mixed with Blood drawn from the Body renders it thinner and more florid and of a shining red and hence they infer that a similar Effect is produced in the Body. But this is certainly a very erroneous Method of reasoning. But the Experiments of Dor whyte and Mon. To on Trago place it beyond all Robility of Doubt that the action of Opium is on the Brain and Mervous Dystem. a Grog will live a considerable Time and even hop about after he has lost his Heart. After taking out the Heart of a Trong D' Whyth injected a Solution of Opium into his Stomach and Juts. In less than half an hour

he seemed to be quite dead, and neither pricking tearing nor cutting its Muscles caused any Contraction in them or any Motion in the Barts to which they belonged. Here the Opium could not certainly, produce its effect by mixing with the Circulation as this was destroyed by taking out the Heart. D. Monro indeed observes that the Opium is sometimes absorbed by the Lymphatics and carried into the Mass of Blood. The further of. served that when a single drop of the Solution arrived at the Heart it instantly rendered it paralytic. The Heart of a Trog will continue to beat for some time afterbeing taken out of the animal. In whith observed that upon immersing it in a Solution of Opium, this Motion immedi. ately ceased . Opinion acts not only on the Merves in general but als. on those to which it is immediately applied. The different Humours may be affected by the action of Opium on the Organs of Sense and motion and it is this that has given rise to the Mistake. We have now from physiological, from the pathological Observations of Van. Switten and the Experiments of Whyte and Monro shown that Opium does not act by rarefying the Blood but that it produces its Effects by acting on the Meroous System.

The other Question is of more Importance; vz, whether Opium excites the action of the Beart and Arteries or the contrary? Trallis, a feets that Opium always renders the pulsation of the Beart and arteries quicker and stronger. Italian likewise tells us that in small quantities it always accelerates the pulse, and likewise that a Dog will not be killed by any quantity of Opium we can give him. It has indeed for late been a serted that no person can be killed by Opium. Whyth and others supposed that Opius diminishes the action of the Heart and are teries and lepens the Circulation except in Cases of Languor and Debility where the Contrary Effect is found to take place. If we also that

that the action of the Heart depends upon its Sensibility and Irritability and of this we cannot entertain a doubt, we will from theory conclude that O. pium lessens its action and that the pulse will become slower upon giving Opium.

There appears to be a great Similarity between the Motion of the Heart and arteries and the peristaltic Motion of the Intestines. The latter is always diminished and rendered slower by Opium and the Heart is affected as well as the Intertines in the same Manner the it is not so readily perceptible, probably from an inherent irritability in the Heart which renders it lepli. able to be affected. D. What found that the motion of the Heart in a mog was sooner diminished and destroyed by injecting a solution of Opinion into the Stomach and Intestines than by lacerating the Brain and Medulla Spinalis or even entirely removing it from the Body. Dr. Monro al. so found that the action of Opium was extended the the Meant and as. teries and that their Motion was diminished. In a large quantity it diminishes their action and deprives them enterely of Sensibility Tral. lis tells us that he always observed the pulse become both stronger and quicker in the first Operation of Opium, but towards the Close of the Operation or when given in such quantity as to destroy Life the pulse became extremely low and weak. We must observe that Opium will have the leffect of raising the pulse in some fracticular Disorders as also of restoring a proper degree of Heat. This Effect does not depend upon its being a Stimulus as Trallis supposes, but is owing to the pain and anxiety whon which this Weakness of the pulse depended being removed by the Sedative Wirtue of the Opium. Trallis from his The ony was led to give Opium freely in Cases when debility prevailed & we need therefore not be surprized at the Effects which he found take place. Our Experiments to determine the Effects of any Medicine ought al. ways to be made on a person in Health for by Disease the Effects of

they really are. An Instance will illustrate my meaning. When and Spirituous Liquors every Body will allow are in general stimulant. In some particular bases they will prove sedative. Upon a Hetropulsion on of the Gout into the Atomach, the pulse which was before maderate will be greatly increafed. In this base if you give your Patient a Glass of Hoins or Brandy by which the Gout is again thrown whom the Extremities the pulse will be lepened and restored to its natural standard. Here the Wine acts as a Sedative but this Effect is produce by its acting in the first place as a Stimulus.

An general Opium renders the pulse slower and causes as accumulation of Blood in the large Obesels. After its Operation is own it leaves the Body more sensible and invitable, and hence the Heart as arteries are more sensible to the accumulation of Blood in the large Obesels and therefore the birculation is increased. Hence we sethe Cleason why the pain in the Pheumatism is often increased after the Effects of an anodyne are gone off. Do Jones gives no sever abrinshmen in which Opium proved Cathactic. This must have been produced by the Opium removing shaom and leaving the Intestines more sensible the Stimulus of the Beces. I knew a Gentleman who had for some time been used to take Opium who after leaving it off was troubled to lookineness which could be removed only by having again recovered to the Opium. From the Systembeing left more invitable after the Union of Opium we see that it is hutther in Inflammations and Informatory Bevers attended with tepical Pain.

another Effect of Opium which is a stronger argument of its not increasing the action of the Heart and arteries is that of relaxing and debilitating the oscillatory Motions of the Solids. Opium

certainly has the Effect of lepsening the Heat of the Body). This is confirmed by the Testimony of many respectable physicians. Van Swiet. en recommends Opium to lessen and moderate the Heat in Fevers. Like wise in the Stage in the Small pox. Auxham after Blee. Do Storch mentions its Use in acute devers and also in pleuring and peripreumonies. To these we may add an infallible proof that the Heat of the Body is not increased by Opium, viz. applying the Thermometer to the Body of a person under the Operation of and ano dyne when we will find that the Mercury instead of rising falls below the Matural Beat of the Constitution. The are now to mention the Effects which appear when Opium is given in a full Dose to persons in Health. There ensues sometime after taking it, a Chearfulness and Serenity of Mind, Fortitude and Sivelines of Imagination. The pulsation of the Heart and arteries is rendered slower and fuller, the Heat of the Body is rather diminished, the different Secretions are diminished except perspiration which is increased; the secreted Ihuids become thinker. There is a drypufs and disagreeable taste in the Mouth and hauses; the Body is rendered costive; the respiration is rendered slower. The Ulepelo on the Superficies especially about the Head and Chest appear full and distended. The Skin becomes red; there is a difficulty of Breathing These are the effects that are produced in nine persons out of ten. We are now to account for its Operation. Before we descend to Particulars We may observe that we can in general account for the various pha nomena from its diminishing the Sensibility and Ivritability of eve. ry part and from this Effect being greater in proportion to the Dis-tance of the parts from the Sensorium. Hence the inferior Extremities are much sooner affected by Opium than the superior parts

of the Body. The Heart from the constant Stimulus to which it is ex. posed and being so near the Sensorium Commune is least affected of any part. The Chearfulness and Sevenity of Mind are occasioned by removing all disagreeable Sensations. But in all bases when the Spi. rits have been artificially raised or elevated, they are afterwards depol. sed in proportion as they were raised, so after the Operation of Opinion is over a Languor and Debility succeed. The Jurks never take a seem Dose of Opium till the effects of the first are fretty well gone off and they begin to find themselves low and dispirited. The Effects of Opium are in general Sedative, but in some persons it has quite the contra. ry Effect. In these it occasions the greatest Chearfulness and rather by them awake than disposes them to sleep. But for one person who is the kept aloake ninety nine are bulled to sleep. The variety of its effect on different persons must be accounted for from peculiarity of Constitution. We observe that different preparations of Opium will have different Effect whom the same person. Landamum in general will check a Comiting, but sometimes so far from having this effect it rather tends to increase it. Per. sons will sometimes womit upon taking a new Bill of Opium, whenow that has been kept for several Week's will have no such Effect. Auxham tells us that some people will bear diascordium that cannot tout Opium geoffroy tells us that he knew persons who would take a watery Solution of Opium whom a spirituous Sincture drove almost to Madness. Willis tells us that he knew Cases in which Opium brough on a total Oblivion. Imust here repeat to you one Caution with re. gard to the exhibition of Opium from Can Swieten . If you are un. as quainted with the Constitution and Habit of your patient the best Method is to depolve a few grains of Opium in some proper be. hicle e.g. Water; of which a small quantity is to be taken frequently

untill the desired Effect is produced. By these means we effectually obviate the bad Effects which might arise from an Overdose of the Opium; but if the In. tervals between each dose be long we will frequently be disappointed, and our Expectations are soldon so well answered as if a full dose of Opium had been given at once. A larger quantity is taken in this way than would have been necessary had we given a sufficient Dose at first. We should never confine ourselves to any particular quantity for a Dose; for the goj is commonly a sufficient dose, in some bases as in great pain or Irritation this quantity can have little or no effect and a much larger quantity, will be necessary. Opium also gives Fortitude to suffer pain and incur danger This is owing to the Sense of pain or danger being diminished rather than to any real Courage which it inspires the Mind with. The Turks take Opi. um before a Battle or Exploit to lepen the Fear of danger. Van Swieten recommends Opium to be given before performing any capital Operation in Surgery, not only to diminish the Sense of pain, but also to lepsen the Fran and make the Palient more readily submit to the Operation. The quickness of the pulse depends whow the Sensibility of the Heart and arteries. What ever therefore diminishes these will render the pulse slower. The action of the Heart is not diminished like that of other Museles. This some have endeavoured to account for by supposing that the Heart was furnished with Merves from the Cerebellum, whilst the other Muscles of an Animal were supplied by the berebrum. This Theory however is wrong in every res. pect. The Sullness of the pulse is owing to the Telaxation that takes place in the larger Alefsels, for as the Circulation in the smaller Wefsels is somest checked the Blood must necessarily be accumulated in the larger Cossels. Opium diminishes the animal Heat. The Heat of the Body is enterely connected with the Circulation. When the Circulation is increased the Heat of the Body is augmented. But when the action of the Heart and are teries

Continued the action of the Heat is befored. Therefore as Opium has the Effect, beforing the action of the Heart and Arteries it must necessarily diminish the animal Heat. It was likewise observed that Opium checked all the different de cretions except perspiration which was increased and that rendered the vento Fluids thicker. The Bluids become thicker by the more fluid parts being absorbed during their Stay in the different Reservoirs. Hence it is that Opium is so serviceable in Catarrhs and serous Defluxions where a thin acrid Matter invitating the Bronchia produces an almost incessant Cough. In this law by giving a dose of Opium in the Evening and essening the Sensibility that, retation is removed. Hence the Aucus is allowed to accumulate and acquive a proper Degree of Consistence and Middues and is thus readily expectore test. The Phirst and Dryness of the Mouth and Jauces after taking Opium is owing to the Service and Exercise of the Saliva being diministred. The discoverable Vaste is owing to the Saliva from Stagnation undergoing or inching to putrefaction.

Opium renders the Body costive. The regular exerction of the Taxes is in a great measure owing to the Sensibility of the Intestines to the Stimbles and initable list from the Bile. Opium rendering the Intestines less sensible and initable will necessarily produce bostiveness. The next motion to Stool after laking a sow of Opium is found to consist of white or ash coloured Faces. This Effect we know depends upon the Bile not being properly mixed with the Faces. We may therefore infer that Opium diminishes the Secretion of Bile Thus the proper Stimulus to the Stomach and Intestines being removed this will tend further to produce Costiveness. Throm its diminishing the Secretion of Bile Opium proves extreunly useful in the Cholera Morbus, as it not only lessens the pain and violent Domiting and purging but also lesens the too great secretion of Bile upon which the Disease depends . Opium is said sometimes to produce a difficulty in making Water or even a total

Suppression of Wrine. This may be readily removed by any sudden Ter. For or by applying bold suddenly to the Bladder.

Opium renders the Respiration les frequent Respiration becomes les frequent whenever the Irritability of the Lungs and their Sensibility to the Stimulus of the Blood passing thro'them is diminished. Hence we find a slow Respiration attends all soporose Diseases, as Apoplexy Le. thargy to As the Sensibility and Drietability is diminished by Opium the Respiration becomes slower. Trallistells us he always found the Respiration quickened by Opium; this indeed would be the Case did it increase the Circulation as he supposes. But in healthy persons it is always rendered slower. It is remarkable that in all those bases in which Trallis tells us the Clespiration was quickened, the Opium had been taken in too large a Dose, when this Symptom comes on towards the Close of the Operation. Opium distends the Wefsels particularly the Neins about the Head and Face with a Sense of Fullness and Constrict tion. When the Irritability of the smaller Uefoels is diminished the Motion of the Blood thro' them is also diminished; hence an accumulate: on of Blood takes place in the larger Nepels which distends them. To this we may also refer an Experiment of D." Monro's who suppose the Blood possessed a certain Clasticity which he ascribed to the air com bined with it. by this the Blood always endeavours to expand itself but is counteracted by the Muscular power of the Blood Wefsels; when these are relaxed the Blood rarefies and distends them.

Haller remarks that during Expiration the Veins on the Surface appear distended, blue and cylindrical; during Inspiration, collapsed, pallid and as if they contained no Olood. When the Respiration is frequent this Change oftener takes place and then it is more remarka, ble. When the Respiration is slower it is not so often produced but then it takes place in a greater degree each time. Opium then produced

produces this Distension and Fullness by rendering the Respiration slower. By slow Respiration the Blood has time to accumulate in the Veins, byth, they are distended and occasion a Sense of Bullness and Construction; and as the Messels about the Head and Chest are most affected by Respiration from their being, near the Lungs, the Distension in them is more remarkable the is not as Trallis supposes from Opium determining the Blood to the Head more copiously. The Veins of the Head have fewer Walves, are larger and are capable of receiving more Blood, hence the Regurgitation of Blood du ring Expiration is more evident in these than in any others. The Sensi. bility and Expression of the Face renders a change in the State of the Repels more evident and we may often observe a Juliness and Distention in the Bace which is not visible in any other part of the Body. The appearance of plethora and Red Blood entering the serous Defects infrom the Relaxati. on which takes place. The Difficulty of Breathing and Oppression at the Breast with which persons are sometimes troubled for one two or three days after taking Opium is occasioned by a bollection of Mucus in the hollistes of the Bronehia, which by Stagnation has the fluid parts absorbed becomes thicker and is converted into something like pus. This is at first difficultly thrown up, after some time becomes like free and is readilyed hectorated, the difficulty of Breathing Oppression and Imparition of the Sungs are relieved. The bad ifferts of Opium in the pleurisy when in. properly and injudiciously administered before the Obstruction is resol. ved are produced in the same manner by a Collection of Mucus . Deno it is useful in many bases to combine Squills with the Opium to fre. went this Inconvenience. Opium alleviates pain and solver Spasm, refreshes the Body when fatigued with Exercise or Labour by diminish. ing the Sensibility and I writability of the System or of the part affer. ted It occasions sleep by debilitating or relaxing the Organs of Sense

and Motion, by taking off pain, diminishing Irritability, diminishing the Impressions on the Mind or Sensorium Commune and by rendering the Mind quiet and serene; this being in a manner deserted by the Sen ses, receiving no Imprepions from strong impulses from without or from violent affections from within, desists from distributing the Mervous power to the different Organs which then do not perform their usual Sunctions: Sleep must then necessarily ensue. We well know that while we are bu sily employed in Body or Mind Sleep remains a Stranger. But how it is that Opision renders the Mind insensible we cannot explain, nor perhaps is it to be explained. Some have imagined the Operation of Opium on the Mind to be owing to a Carefaction of the Blood compressing the Brain. If this Effect were the base it ought always to follow upon taking Opium; no Condition is so regular in producing its Effects and acts so invariably in the same manner as mechanical Compression of the Brain. When the Brain is compressed we find Sleep, Stupon and apoplexy, are produced constantly in proportion to the degree of Compression employed. This I had an Opportunity of observing in a Boy who had been scalped & tomahawked by the Indians and had lost part of his branium, the Brain being covered only by the pia and dura Mater. Prefoure always produced Sleep which was more or less sound according to the degree of Compression. But we find it is not always the Effect of Opium to produce Sleep. It sometimes occasions Watchfulness, Giddiness Intoxication and Convulsions without our being able to account for such different Effects, when we endeavour to do it we only grope in the dark and know no. thing about the Matter. after the Marcolis Effects of Opium are gone off the Sensibility and Irritability return by Degrees and are even increased beyond what they formerly were: Pain which was allowated by the Use of it returns and often with

with greater Wiolence. The Body feels heavy and the Mind dejected and thus is frequently a pain in the Head. These Effects are owing to the Buretions being injured and remaining for a time local and unfit to perform their Offices. The Increase of pain is owing to the increased Dritability which is left after the Operation is over. When taken in large Quantities or often repeated Opium enewates the System and weakens the Animal Function particularly those of Digestion and Chylefication. The proper exercise of the and of muscular Motion depends upon the Strength and Force of the Merves. When these Suffer and are relaxed those must necessarily be weakened.

feets of Opium you will be enabled to understand in what bases it is poster, in what particular Diseases it is to be employed and the time and manner of exhibiting it. It appears from what we have said that the Operation of Opium is exerted chiefly if not altogether on the nervous by stem and that it does not rarefy the Blood nor quicken the pulse.

We now come to the Diseases in which Opium is employed and aret point out the proper time of administering it.

ful Disorders. Dain may be considered as of three kinds as it arises I'the Inflammatory Distension. 2 moly From Spasm. 3 moly From Stritation. all pain Ithink may be referred to one or other of these Causes. We have an Instance of pain from the first Cause or from Inflammatory Distention in all Cases of Topical Inflammation, in Rheumatism, pleaving and such like diseases. Dece Opium can have little or no effort in from ducing a bure. It can a ford only a temporary Releif by diminishing the Sensibility of the System, the even this effect is often counterbalanced by the bad effects which it produced by Caving the Body more writable and susceptible of pain; by causing an accumulation in the larger less sels which stimulates the Heart and Orteries and increasing the Society. Seliting

bility, the Circulation will be increased and the Inflammation and pain much augmented. We should therefore be cautious how we order it in those Cases except on particular Occasions. In the pleurisy or peripreumony there is sometimes an Irritation in the Tracked which produces an incef sant bough and a thin acrid Mucus is poured out which frets and irritates the parts; a good Dose of Opium will alleviate it by rendering the Mind insensible to the Stimulus; whence it is retained in the Tol licles and acquires a proper Degree of Consistence and Mildness . It is highly proper that Evacuations should be premised to prevent its bad Ef fects. To hinder it from checking the Expectoration which is the only sa lutary brisis, it will be proper to add hecac. Squells or some Antimomial to promote the Expectoration. In the acute Rheumatism it can answer no good purpose asit will only afford a temporary Teleif and not diminish the Disease in any manner. In the Chronic its use seems to be attended with some propriety the even here it is seldom productive of any remarkable Effects. I am not now speaking of the Use of Opium in these bases when combined with Opecacuarha or Tartar Emetie : when given in this way it proves a powerful Sudorific and may be employed with considerable advantage in both the Chronic and acute Rheumatism. The Toothacke is often a Cheumatic affection, and attended with Inflammato. rey distention; it is commonly alleviated by the external application of Opium without any bad effects being produced; as it is applied topically, its action is not extended to the other parts of the System. It not only takes off the Sensibility of the parts but may also tend to destroy the Morse? Opium has been used to mitigate the pain in the Gout. We had better refrain from its Use during the Height of the paroxysm. The are however some. times obliged to have recourse to it when the pain is very veolent & requires a temporary releif. At the Close of the paroxyom when the

Inflammatory Symptoms are gone off and a disagreeable I vitation and Restrepuep continues Opium will highly useful. Opium is highly useful in Suppurations which often irritates the whole System. It takes off the pain and Invitation attending it and advances the Suppuration. Upon this is founded the Use of Opium in the Small pox in which its Use is often at tended with happy Effects: Here when the patient is restless a Dose of Opium will compose him and leave Nature uninterrupted in her Endeavours. When we use Opium in this Disease we should guard againg the Costiveness, which it is apt to produce by Emollicent Glysters.

In the Second kind of Pain or that arising from Spasm, Opium is universally indicated. Here it is not only a Palliative but it oftentimes radially acres it. In flatulent bolies it is predent first to open the Bowels by La ative Glysters or Gentle purgatives. If the pain is accompanied with hat a full, quick hard pulse and high coloured thine with great Weath, nep and Debility and the Abdomew feels sore upon being touched thew is danger of an Imflamoration of the Intestines having taken placed this is to be removed by very copious Bleeding and the Antiphlogistic Re. Jimen When there are no Symptoms of Inflammation, Opium may be administered with Safety and Advantage.

In the Cholera where there are violent Evacuations both by stort and blomiting attended with violent Spasms, Opium is an excellent and indeed a sovereign Remedy and our only Refuge. The patient should drink plentifully of Chicken Water or other diluting Signors and these may likewise be injected into the Intestines by the anus. Cloths dipped in Vinegar may be applied to the Abdomen. If by this means the discharge is not checked we must have recourse to Opium which may be given internally, and injected by Glytter. In Bilious Clomiting

Donatings the same method is to be pursued. In this, as well as in the Cholera it will be necessary to take away some Blood, in general, expecially if the patient is of a Nobust and plethoris Habit of Body. Opium also diminishes the Secretion of Bile and is thus doubly useful in a Pilious In the Slias Passion Opium is useful. This is frequently owing to and is generally accompanied with Spasm! It is one of the most dis tressing Disorders to which the Human Frame is liable. In this our prin cipal Indication is to evacuate the Contents of the Bowels and to reneedy) the Costiveness which attends it. This Costiveness is frequently produced by Spasm and unless this is allayed no Evacuation can be produced. purgatives will have no effect unless Opium is employed to remove Spasm I have frequently seen the patient tormented with swallowing Castor Oil to when the Spasms were so violent that the Stomach could not retain a Spoonful of the most agreeable Liquon. Agood Dose of Opium may here begiven with propriety and assurance of Success. We may likewise combine Opium with our Burgatives, for the it may is some manner counteract their Effects, yet it will more than compensato for this by solving the Spasm. In the bolica pictonum or Dry Belly ashe Opium should precedo the Use of purgetives according to Hillary and De Haen. Opium may be employed in Spasmodu affections of the Stomach. It should not however be used too freely, for as these mostly depend whon De. bility and acidity, the continued Use of it will only tend to increase the Cause. It therefore can be considered only as a palliative. Opium is an effectual Remedy in Spasmodic affections of the Uterus. These are of three kinds. 1th Those that occur at the Menshu.

al period. 2 ndly During the Flow of the Lochia. 3 ndly Those that or car during Child Birth. First; at the Menstrual period there and frequently Spasms of the Bonels: these may be effectually relieved by Op im. Opium is likewise an effectual Comedy for those pains which or. cur after Labour and are called grinding pains: The Opium should be given in the beginning of the pains. When they continue for any time they are aft to produce an Inflammation of the Uterus; when this is the Case, cooling Tomentations are to be applied to the abdomen and other le. medies of an antiphlogistic Gendency, are to be made use of. Tile should be particularly certain that these pains are not the Consequence of any Injury done to the Atterns during Sabour. The Spasmodie frains which sometimes preceed the real labour pains and are commonly called false pains are most effectually releived by Opium which does not him der the real Labours from coming on. Opium is also used to prevent abortion. If Labour pains come on at an improper heriod during freg. nancy, the Roman is threatened with an abortion. In this base le should first take some Blood from the arm and give an Anodyne, and enjoin Rest and Composure of Mind. If the pains return these Remedies are to be repeated, by these Means many abortions have been prevented. If an Heaviness comes on without pain, a giddiness ofthe Head and Swimming of the Eyes with a Change of Countenance, all our Endeavours to prevent a Miscarriage are fuitless and the sooner it happens the better.

Opium is also useful in a paroxysm of the Mephritis, how we should first open a Elein evacuate the Bowels by Emollient flysters which also tend to relax the parts, give Opium three times a day or troice. Emollient Thomentations should be applied to the parts most affected; these should be used whilst the patient is in leed, but he should

should also frequently be taken out of Bed and put into a Warm Bath so that the whole Body may be relaxed. To relieve the Sickness of Stomach which generally occurs we may apply a Bag filled with Mint or Lavender that has been infused or moistened in Hot Wine and Spirits. The patient should also drink some Emollient Liquon or an Infusion of Mallow Leaves or Roots or any other Mucilagi. nous Substances. The Opium should be repeated from Sime to Sime during the Maroxysm untill it is effectually relieved; we are after. wards to have recourse to the most approved Medicines for preven. ting a Return. When a small Stone falls into the Ureter or Meck of the Bladder from the Irritation it occasions it prevents the Unine being collected in sufficient quantity to dilate the Meters or Meck of the Bladder and when discharged carries the Stone along with it. The other Remedies which are applied and which are generally of an antispasmodie Mature also contribute to this effect by the Celaxation they occasion.

Opium is generally employed for the bure of Setanus, Opis. thotonos and what is commonly called the Locked Jaw there are of a purely spas modic exature and they are generally occasioned by some violent Irritation affecting the Merves. It is often brought on by a Session or puncture of a Merve and is frequently for our ced even by the most trifling prich of a soc or Finger. When it is within the Reach of the Knife we should never hisitate to take off the affected part or Joint. The Disorder proves generally fatal unlife the Remedies are employed in Time. Opium is the most useful Remedy and may beginen internally and applied externally. In the London Medical Osays there are severallenstances of a Lorked Jaw coming on from the Losion of a Merve; there were allowed

this

a judicious esurgeon of Manchester and since republished in a blo. Sume of Surgical Cases (a Book which I would recommend to your attentive perusal) in which the Sorked Jaw was brought on by a Wound in the Tinger, in this Case Opium was given and checketh progress of the symptoms but did not remove the Disease. The injured feet and Opium given with Success and the Disease removed. The Doses of Opium which are proper in other Cases will have no of feet in this; the patient will bear an incredible quantity without the least Inconvenience. In this there is an I vitation and Convert sion of the Mervous System. There are Instances of many Drachms be, ing taken without Relief. We should give it in such quantity and repeat so often as to have some Effect in moderating the Symptoms.

Rinds. 1st The Spasmodic which is owing to a Construction of the Websels on the Surface of the Lungs and Bronchia. 2mg Humored which arises from too great a Secretion or Excretion of Mucus during the Paroxysm. In the former Antispasmodies and Opium are fur her, in the latter Stimulants. The former is periodical the latter sometimes without Intermission. In the Spasmodic Asthma Opium is given to palkate and put off the Paroxysm; for this purpose it will be proper to add Aquills, Specasuanha, or some antimoned purporation as Opium alone is apt to produce Infarction of the Sung Shese Substances will not counteract its good effects and will present the bad. Sir John Gloyer who was himself troubled with the Otothma and who has left an excellent treatise superior to every Thing that has been published on this Subject as he wrote from his Thing that has been published on this Subject as he wrote from his

W. Fran co repulling own beelings used always to evacuate the stomach and sometimes the Mummin Intestines by Emeties and purgatures and then used Landanum in small mashrage Doses, or instead of Opium he used a Water composed of the distilled telater of Red poppies three ounces, half an Ounce of the Syrup of Poppies, and grown and othe drawn with an Cure of Sal prunello. ken Notus of I met with a base lately of a Gentleman who relieved himself of the Asthma by taking from 10 to 16 drops of Landamum in the Morning & ath Since drinking after it two bups of strong boffee. By this he is so much relieved Cases will ! that he is not obliged to take Opium more than once a Week or Good: tible quently Scritation in Opium is also used to relieve the Head ache. When this is owing to of many da a Divorder of the Stomach, Emeties, Murges and Stomachie Bitters are in such guest necessary. When it is of a Rheumatic or Outhritic Nature, the Remedies resting the day adapted for these Complaints are to be employed. When it is from Weak. athma to neps and Debility, Bark, Valerian Cold Bath and Chalybeates are a bonatrita to be used. When it is more purely heroous Opium is to be used and ronchio. 1 is the proper Remedy. When it returns every Day at a certain Nour, Opi estion of his um given about half an Hour before it is expected will put it off if & and Opin repeated will are it radically. We should in the Head ache first give periodical the an Emetic and the Bark as for an Intermittent, if these do not succeed Kasmodis Ula we may then give Opium combined with Theras. This will throw the on; for this has patient into a profuse Sweat and relieves the Disease. For Instances of Head aches being cured in this Manner Drefer you to D. Whyte Trea. or some anti-· Infereting tise on Mervous Diseases. d Effects and The third Species of pain is owing to Irritation; here Opium is used as a palleative. Thus in a Cancer when the patient is past Necovery in self trobs we order an anodyne at Might to mitigate the pain; besides this it will contribute to the Formation of landable pus and thus alleviate the Disease Treater dalor tach with

It is also used to alleviate Mocturnal pains in the Veneral Disease and to palliate the Disorder untill Mercury or some other proper Methods can be employed to remove it effectually. It is also used in tedious Suppurations of the Liver, where it will afford Telief to the patient without occasioning any Injury It is also used to alleviate troublesome and exceptive bough in the latter stage of a bonsumption. When this is excited by pus collected in the Lungs Opium cannot aford much Relief; but in the latter stage it is frequently produced by an Acrimony and Abrasion of the Much stage it is frequently produced by an Acrimony and Abrasion of the Much cus in the Gracker, here Opium proves very serviceable.

Opium has been employed both by Antients and Moderns for the Cure of Intermittents. Given in a sufficient Dose half an Hour before the Acceptation it prevents it for that time from coming on and if repeated will cure it entirely; here it acts as an Antishas modic. If given too long before the sit it will have no Effect nor has it any during the Paroxysm. Opium may also in this base be advantageously prescribed after the Operation of an Emetic especially in the Evening to promote perspiration and Solution of Strice ture on the Surface, previous to the use of the Bark.

Opium is also used by Some in Nervous Severs to provine sleep and to compose the patient, but it is seldom safe in the beginning and in the decline the Body rather requires something more stimulating than Seda. tives to support the Dis Vite as these tend to depressit. But in bases of violent affection we have recourse to it; if the first Dose does not relieve we should desist from the further use of it. In this base Antispasmodies as bamphon and the Dolatile Alkali and Wine are necessary,

Opium may be used with advantage in the Diarhea and Dysenty after the Stomach and Bowels have been evacuated. If we give a Lax ative in the Morning we may give an anolyno in the Evening. I have frequently known Dysentines and with nothing clee.

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An Ounce of Glaubers Salts may be given in the morning, or half an Ounce may be divided into three or four Doses with a small proportion of Tartar Emetic and a Dose of Opium may begiven in the Evening combined with specae or Sait Emetic. By this the perspiration and Determination to the Skin is promoted. By giving the Sal Catharlicus divided it opens the Bowels more effectually than when given at once If a plen. tiful Sweat breaks out and a continual Moisture appears on the Skin it is a favourable Symptom and unless we produce a determination to the Skin if the Discharge be checked the Disease will return with redoubled Violence. The next day the same method must be pursued. Half and Ounce of Sal Glauber may be divided into eight parts, and the Opium combined with specas, or Sait. Emet. may be given at Night. The Gan. bers Salts answers another purpose here besides opening the Bowels, it prevents the venesmus which is so very painful and distressing. The venes. mus is never troublesome only when the patient cannot have a Discharge other Laxatives will have this effect as Castor Oil and Syrup of Marshmallows If the pain is very great we may add Laudanum. The milder purgatives answer much better than the acrid and stimulating. The Neutral Satt by their Sedative quality and bastor Oil by sheathing the Intestines alleviate the pain and increase the Evacuation by Stool better than Jalap Rhubarb and Mereny which increase the pain and add to the Tever.

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Opium is also used for the bure of the Catarrh, but here its use is ambiguous. It will be proper to combine Squills, I pecae or some other Emetic to promote Expectoration which will obviate the bad effects of the Opium When it is owing to Irritation and Titillation occasioned by Acrimony or Abrasion of the Mucus, Opium is highly proper. Most recent ba tarrhs are attended with Inflammatory Symptoms, it will therefore be fruit dent to take away some Blood which relieves the Seven and asts

Symptom, this is often attended with difficulty of Breathing and often account on Suffarmation in the Lungs. This is occasioned by the Cruption on pying the Bauces and Trached; to alleviate this we must bleed and show the Body by gentle Laxatives and order our patient to drink plentifully of itiluting Liquors. We may also order a Linctus of Oil of Almonds and Spermacoti. This allays the bough by taking off the Irritation in the bauces and also extends its Effects into the Trached. If these prove ineffectual sydenham and others have recovered to Opium for which they have been securely consuced by many. Opium here acts as a palliative and by taking off the Arritation which tends to increase the Inflammation does more derived than it can do harm. Se Haew and Stork tell us they both used by unit great Succepts. The Irritation produces a Construction by which this um with great Succepts. The Irritation produces a Construction by which this cretion of Musus and the Expectoration are prevented. Here an Unodynety taking off Construction promotes Expectoration.

Opium is also used in Hamorrhages, how it acts as an Antishasmolic and by diminishing the action of the Beart and Arteries it checks the war cuation. Irallis tells us he used it in every base of Hamorrhage owing to Stimulus and Irritation. Whyte recommends it in every Hamorrhage owing to Spain. In the Menorrhagia bravidanim Glysters of Warm Water with 40 or 60 Drops of Laudanum may be given with Advantage. When it is owing to Spasm and Irritation we may administer Opium fruly here it will often relieve the Disease. When Hamorrhage is viving to an increased action of the Heart and Arteries Bleeding and the Artitle. gie Regimen will be necessary. When it is owing to Debility Opium will be heartful by the Relaxation. But in some bases a temporary Relief is cometimes necessary when the Damorrhage is vogreat as to threaten sometimes necessary when the Damorrhage is vogreat as to threaten Life. In this base Opium may be given and here it acts only as a pallar two

Palliative and after its Effects are over the Slamorrhage will return. When the Disorder is owing to Debility I would always prefer Wine to every other Remedy; but whenever the Hamorrhage is owing to Spasm and Inritation Opium may be administered feely with Safety and Advantage. It moderates and alleviates the pain and I have been successful in relieving Hamorrha. yes of the Atterns by Opium that had resisted every other Remedy. When there are owing to plethora or Debility Opium is only a palliative and should be employed only in pressing bases to give us Time to employ other Temedies to remove the Complaint effectually:

Opium has been lately introduced into practice as a bure for the Vene. real Disease in all its Stages whon the following Occasion. A Gentleman be longing to the Military Hospital of New York was affected with the Menereal Disease to such a Degree that it baffled all the Efforts of Medicine Despairing of Role of he quitted New York and went to England with a view of dying among his Friends andishis own Country; his Friends at New York considered him as a Man not long to remain in this World and never expected to see him again, but to their great Surprize some Month after he returned to New York with his former alacrity and Higour. They were curious to know in what manner such an extraordinary bure was performed when he gave the following account of himself. That after his return to Eng. land he took Opium in sufficient quantity to relieve his pain and he took it in such quantities that it was supposed he wished to shorten the he riod of his miserable Existence . He was surprized to find that the Alcers put on a healthy Oppearance and showed a Disposition to heal; this. did not cause him to remit his former Course. He continued the Use of the Opium and was perfectly cured after some time without the use of any other Remedy. This base excited the attention of the Military practitioners who made Trials of it and found it answer their Expediti: one. From that time it was used in the Hospital on every Occasion and

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and in every Stage of the Disorder with invariable Success. In Micha elis physician General to the Troops in the British Service assured me that no other Remedy had been employed after this period in the Hospital Depart ment under his base and that it did not fail in a single Instance. The patients began with taking one or two grains two or three times a day the Dose was gradually increased till they took ten or twelve grains every 24hours They did not appear to suffer any Inconvenience from this Quantity of Opium Do Schöpf Surgeon to the anspach Regiment related a base of a hellow who was twise apparently cured by Mercury but it broke out again both times. The was then fut whom the Use of Opium and was cured effer. tually. I have used Opium in the Venereal Disease by itself and have combined it with Mevery. In a Gonorrhea I used nothing else but Op um unless perhaps a little gum Arabie; one grain in the Morning, oned Moon and two at Night . I used it in one base in the Pennsylvania to. hital with Success where there were Menereal Ulsers on the Penis: Opium was given internally and applied externally to the Meers in Solution. The following base seems to show the Eficacy of this Remedy. A Gentleman in this bity had been afflicted several Month's with an Aller in his Groin in Consequence of a Venereal Subs. This would not yield to all the Remedies which had been employed. Mercury had been used without Successo. The Anife and the Caustic had been employed to remove the hard Edges of the Meer but they always grew up again. When my attendance was desired found him with an Aller the Size of a french frown in the Grown with ragged uneven Edges, another was making its appearance in the Pubis. He was ordered to take Bark and Meisury and as we feared the Mei would degenerate into a favor we ordered him to take Extract of Hemlock and to foment the Aller is an Infusion of Dittany. He was likewise ordered to take a sufficient Dose of Landamum every Night to ease his pain; by there me and the progress of the Disorder was checked, but the Aller put on no appear appearance of healing. We therefore determined to administer Opium in such quantities as to keep him quite free from Dain. The Dove was in creased till he took from ten to twelve grains every 24 hours. In a few Days the Meer put on a favourable appearance and in three Weeks was entirely healed. Since this time of have used Opium in every beneval Complaint. When these are long continued I generally combined the Corrosive Mercury or Calonel with it. I never find that it makes the patients drowny for as they are not conscious they take Opium they do not expect any such Effects and will not so readily yield to any beelings of this kind. It is apt to rended the Body costine, this therefore must be quanded against by gentle Lapatines.

Opium is the product or inspisated Juice of the Papaver or Poppy which grows spontaneously in the East and particularly in Egypt. This nancotic quality is common to all the poppies, but is most remarkable in the Oriental poppy. The best Opium comes from Egypt where it exsudes from the poppy from Orifices made with a particular Instrument. It has been long an Engine to discover a proper Menstrum to defolve Opium and to correct its bad qualities, but all the different preparations vary in no other Respect than by weakenings the Opium, but this can be more effectually, done by be sening the Dose. One Grain in Substance is generally a Dose to a grown person in Health, but this dose is in some fases insufficient.

Opium does not act so speedily in Substance as in Solution; it is therefore best to give it in Solution. The should give a large prudent Dose at first and if that does not produce the Desired Effect we may give half a Dose in half an hour or before the Effects of the first Dose have gone off

The System in a short time accommodates itself to a certain down

of Opium and this will then no longer produce any exects. There are Instances of Bij being swallowed every day for 18 Months. I do not here speak of the Turks who swallow a drachm at a time for amusimust and not only without any Inconvenience but are evidently exhibitated by it. There is one Instance of a Turk who swallowed four Ounces at a time without any other Effects than that of making him stupid and senseless, but there Symptoms soon went of after he had some Sleep. Kampfer who lived a considerable time among the Surks, tells we that those who use Opium for by one melancholy, sleepy and stupid, like those who use Spirituous Li. quois in abundance. May there are some instances of persons who had been accustomed to the Use of Opium so much that when they could not pro: cure it they perished. Hafselquist in his Travels to the East gives us anch. stance of an Orabian Nobleman whose Servants had forgotten to provide themselves with Opium whom a Party of Hunting. The Master called for his Dose of Opium at the usual Hour and was soon sensible of their neglect. He dispatched Messengers to different places to endeavour to pro cure some, but before any of them could return he expired. Here we have an extraordinary Instance of the Effects of Habit whom the Constitution a person may, so accustom themselves to the Use of this Drug as to perish for the Want of it " Athis is the Case Endeavours have been made to counterast the bad Effects of Opium when taken in too large a Juan. tity For this purpose Acids have proved most effectual; and for this Reason we should not combine Acids with Opinion for Medicinal Pur. poses. Nothing can be more improper than for Physicians to combine. Opium with acidulated Juleps. We should give acids before the Patient has become so insensible as to lose the power of Swallowing. Stimulatory and

^{*} When it would have been poison to those not accustomed to its Mise.

avid Hysters may also beingested and Sinapisms applied to the Ex. trentities. D. Haller gives us an Instance of a young Woman who from taking 10 grains of Opium fell into a Sleep which lasted 40 hours. She was recovered by tickling the Uvula and Sauces by which a Mounting was brought on which threw up part of the Opium Cicuta or Hemlock. There are several Plants which go under this Name? Linnaus to distinguish the one we here mean calls it Conium maculatum and continues the Term bicuta to the Water Hemlock This has been supposed to be the same as the poison used by the ancient Greeks to define their State Prisoners of Sife and of which amongst others Socrates perished. But this was not our hemlock but the bi: cuta aquatica which is totally different. Hemlock has always been es. teemed a good Remody in external applications to resolve Scientius Sumours, but it has lately been found by D. Stork of Vienna to be use ful internally as well as externally for the bure of Scirchies and Canus. Since that time there has been a great difference in the Opinions of Pohy. sicians with regard to its Utility and whilst some confirm In Stork's Of. servations others as positively deny them. Both parties are perhaps in the light but they appear to have differed with regard to the Nature of the Disorder. To understand the Effects of Hemlosk we shall here make

some Observations on Lancers. What I have to say on this Subject is chiefly extrasted from a Creatise which was published some years hast in the Sweedish Language in which the Author bransmitted it to me. Few Persons have had the Experience that he has had in this Disease.

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He was furnished by the Swedish Jovenment with a Sum of Koney to purchase from M. Guy the Use of his Dowder for 20 Years. He was applied to by Persons from all the Northern parts of Europe,

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by which he acquired a Knowledge of this Disease superior to any person now living. He had practised for 15 years in these Complaints when he wrote his Treatise. He divides the Cancer into three Species; the Genuinus, the Fungosus and the Scrophulosus. We shall describe each of these seperate, and from their History and Course endeavour to characterize them so as to distinguish the one from the other.

1. The Generinus is the most common and appears first in the form of a Scircus, quite small, sometimes not larger than half a pea; it is hard and more able and increases by degrees in hardness and Size. Sometimes it remains small and indolent for many Jeans. They increase in Size from a pea to an almond on Hazlenut. Sometimes they resemble to the Geel a small Tendon or Diece of Jwine on the beginning they are smooth, as they increase they become hard uneven, rough, indented and angular. Sometimes too they assume a bonio Figure with the point outwards but they are in general round. They do not increase by the Communication of several sumours as in the Scrophulous Cancer, but the same Tumon grows from the Size of a Pea to that of a Hazle Net, a Walnut, and go a First and sometimes till it occupies the whole Breast. They are generally single and solitary in the same Breast with no glandular Swelling except by assident, except the glandula subaxillaris grows hard and is felt deep in the armpit in figure, size and hardness like the Yolk of an Egg boiled hand. While they are small and before they become fixed to the mus: cular Expansions they may easily be moved from one part to another. When they are near the Tkin and ansperceptible to the Eye and appear round the Skin does not appear affected on discoloured. But if they are very near the Skin they soon become fixed to it which then becomes wrinkled. The Size which they acquire before they break is various, some. times they are of the size of an egg and sometimes they exceed the size

of a Man's Fist. When they break the Skin becomes red and painful to the Touch; it chops and from the Edges a thin Sanies is use out; the Edges become hard uneven and reflected in Conformation and hardness like Cartilage. When extirpated and pressed between the Fingers they appear as if Sand was confi: ned and closely compacted in them. The Sore never affords good Matter but al. ways a thin Sanies or Schoon. all Mercurial preparations are injurious in the beginning and they precipitate and hurry on the Growth and breaking Mineral Waters and all the preparations of Steel are also injurious but they are less so than the Mercurials. When the Tumor begins to shoot and becomes some or painful there is little or no Hope of discussing it, and un: les it is extirpated immediately, it from that moment grows larger. It is al. ways aggravated by Emollient and what are commonly called Discutient applications without excepting Hemlock. When small they will continue indolent and without Pain for many Tears; at other times the pain is felt in bad Weather, and during the Menstrual They a shooting pain is sometimes felt, but this seldom lasts more than a Moment. Sometimes pungent pains are percieved in the Cancer as soon as it is formed or at least before it has acquired any fensible fize. Those which are round and even like an almond are the least painful, whilst those that resem ble a Sinew or pack Thread are very painful from the beginning before they are perceptible to the Eyo or Touch. A Scirrhus which is situated in the upper part of the Breast, when the pain tends to the Sternum and Cavity of the Thorax or to the armpit is the most dangerous the it is not fixed, as the large Gland in the ampit is soonest affected. When this is the Case every thing is useless even Extirpation itself comes too late while from the Situation of the Subclavian Defsels we cannot venture to cut whon the Gland so as to take it out entirely, unless at least till we grow bolder by experience. In this Species Demlock will not have any good Effects. Some Johy vicians tell us that they have by it cured real Cancery

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they mean no Imposition but they themselves have been decieved. Fromthe long Experience of our author D. Berken it appears that Hemlock is of some Use in Scrophulous Cansors or rather Scirchi, but it is of still more der. vice in real Scrophula and old Venereal Micers as also in affections from Indurations and Tumors of the Fat in the cellular Membrane. But in the Genuine Cancer it is hurtful. It bulls and diminishes the Sense of pain for the first Week but as long it increases and extends faster than before of a great quantity is given it quickens the progress of the Disorder and advan, ces it to an open Some many years sooner than would have been the Cascher it been left to take its common Course. It acts probably like Mercury by in. retating without being able to remove the Obstruction. D. Berken hatthe Extract of Hemlock sent to him from Vienna and often used it when the Disease had eluded every Kernedy, and in the beginning where it was af. terwards estimated by Juys powder. He began with small Doves and increase sed them gradually untill he gave an Ounce in twenty four hours without any other effect or Insonvenience but a Confusion or Guddines of the Head In bancers in the Mouth and Fauces it produced a falication like Men. cury. In those bases where Juys Howder could not be employed, as in Cancers of the Tongue, Meres to he used the Remlock with the utmost attention and Circumspection, but did not observe a single Instance of ye. nuine Cancer being relieved by it. A Cancer is soldow or never cured when it has extended to the armpit: of this the following Case is a Con. firmation. It person aged 40 had a Tumor in the Breast of a Come Figure about the size of a small Egg which was loose and moveable and had no connection with the Glandular Substance of the Ebreast, but dep in the aimpit a Tumour was percieved like a Natmeg very much cow. red with Sat and bellular Membrane so as scarcely to be sensible to the Touch. after the Tumor had been exterpated by Gluss powder and was so far healed that only one fourth remained to be skinned over, small

Some; as these were removed larger ones made their appearance not only round the Some but on all that part which had been newly skinned over. The Bottom and Lips of the Sore which had hitherto been of a had they red put on a Canserous appearance; the Glandula subaxillaris grew bigger and harder and appeared like half an apple with the convexion outwards. The arm soon began to swell, the Disorder took its Course, she took the Juice and the Extract of Hemlock by the pound without Welief. Here the Disorder appears to have been of the most virulent Mature and yet the Cause scened to be seated in the subaxillary Gland which furnished the Sore with Cause scened to be seated in the subaxillary Gland which furnished the Sore with Cause occurred Wirus, and if this Gland could have been ex: tipated at the same time with that of the Breast there is no doubt but what it would have been cured.

On the superior part of the Breast there is but little Gat, and the Breasts themselves are in that part thin and Habby but very glander law and more covered by the pectoralis Major. When a Tumor occurs in this part it soon becomes fixed, the Symphatics absorb the cancerous Dirus and carry it into the neighbouring Glands. Cancers of the Breast are frequently brought on by passions of the Mind in Women of an invitable Habit of Body. By Experience nee know that the Breasts have a great Sympathy with passions of the Mind. I am not now speaking of the Espects of the agreeable passions. In mursing or bying in Women by sudden fright or Terror the Milk stagnates and forms Lumps; hence arise Tumors, Boils, distular and Erysipelatous Ecuptions. In those Ils. men who had no Milk in their Breasts a sudden Fright or long continued Grief will produce Spasmodie Constriction which causes obstruction and Stagnation in the finer Wessels. We find Cancers most frequently produced by those Causes which dispose the Lymph to coagulate. If only Serum

or Crapamentum stagnates it quickly forms a brust as tough as Leather! of this Polypous Concretions are a proof. When a Drop of Serum stagnate in the finer secretory Repols it becomes seperated from the rest of the Blood if it is not soon discussed or absorbed it becomes thicker, tough and at length hard from the absorption and Evaporation of the thinner parts. Everyou. ceeding Drop by the Laws of the Circulation will add to it, this also grow. ing harder and fresh matter being brought to it continually by means of the Circulation the Tumor grows from an imperceptible Drop to a Size leoth visible and perceptible. The bluids, which when they first stagnate were mild and of the same nature with the Test of the Fluids, by length of time and heat assume the Cancerous Acrimony. This Virus being taken up by the Lymphatics and cavied to the Neighbouring Glands, thus dege. nerales from a local Scienhus to an afection of the System with many Sin, hi externally, and internally. It is also astonishing to observe the acrimo. my of the a chon; it not only eats away the healthy and sound skin but also melts away fartilages, Blood Nepels and even Bones which vanish without our being able to tell what has become of them. This has beend. served in local bancers where the bluids remained sound and were not at all affected, where the bancer was afterwards cured and the System in general did not suffer from it. Here we cannot suppose that the acrimony procesite in the Blood. This arimony cometimes first appears in consequence of a Blow on the Sumon. It is altogether probable that the soundest Fluids when they come in Contact with a Cancerous Tumour then first degenerate & afound the Disposition and Malignity peculiar to Cansers. I do not altogether demy but what a Scivehers may arise from Cancerous Matter in the Blood. If this is ever the base, which however is far from being my Opinion the Cancer must attack several parts of the Body both internal andy. ternal at the same time and here it is certainly as not a local Disease Extirpation can in this base be of no Service unless we are so fortunate as to

as to find some internal Remedy which will eradicate the Cancerous Dis: position from the System. There is no doubt but that the Cancer Jenu. inus is at first, in general, a local affection entirely, and it may be ra: dically extirpated by the Inife or guys powder without Danger of Relapse. A Scirchies will remain indolent often for 30 or 40 years; but this Scirchus benignus often first becoming malignant when it is im. properly managed or from a Blow or hunt by Compression or Irrita. tion, will then degenerate into a bancer, the Fluids confined becoming highly acrid. When we extirpate a Canser we should be cautious not to leave any part of it behind or it will increase and become as bad and even worse than it was before. The only sure way is to extirpate it radically either with the Knife or Juys powder. The Composition of this remains as yet a secret but it is probably of the same nature with some other Substan. as that have been employed for this purpose, of the Composition of which we shall offer a Conjecture hereafter. If it should happen that some of the Can. cerous Roots as they are termed should be left, the Sore will either not heal or will break out again at a longer or shorter preside. It is sometimes necepary to repeat the Operation several Times from the Cancer returning in the same place. Some authors have been led to place the Cause in the Blood but this is not the base. In my Opinion if a Cancer is radically extirpated there is no danger of its ever returning again unless it has been communicated to the adjoining Glands and then all our Endeavours will be fuitless. This however applies especially to the Cancer Genuinus; we must altogether except the Carcinomata Scrophulosa these certainly originate from an internal Cause and are seldom a local Disease. They attack se veral places at once both of the internal and external parts.

The 2nd Species is the Cancer fungosus, this chiefly occurs in lusty fat Women with large Breasts and of a lax Habit. This like the Genuinus begins with a small moveable hard Sumor, which

increases

increases much faster, is more sprongy and more like a Chester of small ones and is not so hard to the South as the genuinus; but whon break. ing out it appears totally different from the genuinus that it is impossion ble to mistake the one for the other. The growth is very different and in com parison is very extraordinary. As the Cancer genuinus requires several years to come to its height the Jungoous scarce requires so many months and in eight or ten will grow from the Dize of a Nutmen to be equal to a Mans head, and sometimes will occupy, the whole Breast, with many blue or reddish blue Spots which when opened are found to con tain blood or bloody Serum. When this bancer breaks it opens vio. lently and discharges large quantities of bloody frum. From one or two of the apertures arise grape or Lobe-like Excrescencies which are spin, gy and sometimes like a Sheeps Liver and sometimes resemble the Dead of a Cauliflower. It is very different from the Genuinus which is small & round, gradually eating away, the neighbouring parts and is generally dry with little or no Running. The Fungosus on the contrary is lux. wiant without any proper Edges and pups up in height and Size our the whole Breast and discharges such a quantity of Matter that no Dressings are sufficient to keep some of them dry. Tho' the Sungosities appear soft they are found to be hard and Cartilaginous to the touch. They puffup in height or Breadth, they are sometimes strangulated at the Root by the Skin. The Subaxillary Gland is veldom affected, but it may however be affected, and when it is the Disease is incurable. Ofthe the following is an Instance. A married , healthy Lady who never had Children, from a sudden Tright in the 43th year of her age felt a pungent pain in her left Breast; this pain proquently returned and she at last percieved a small moveable Tumor of the Size of a pea, this was hard and increased considerably. The extract of Hemlock was prescribed

prescribed at first in small Doses and for some Time produced its usual Effects of mitigating the pain and shooting and the Turnous appeared as if divided but evidently grew larger; greater hopes were now entertained of Rewary when the Sumor became softer and the whole Breast became larger and was al. together converted into a fungous bancer. It opened in three or four places at once and puffed up from these Opertures; the patient became by Degrees emaciated; the Breast grew so enormously large as to cover the other and to lay like a pillow on the Thorax and abdomen. She was obliged to be left ted in a Sheet from one Bed to another. The Subaxillary Gland was at last affected and after eight Months the Patient died. Upon Difsection the Bowels all appeared in a very unhealthy State: The Atterns was found full of Cancers; the Spleen was like a Bag of black Blood, similar to that which she had daily vomited. The bancer even in this base ap. hears to have been at first local and confined to the Breast and might probably have been extirpated in the beginning without danger of Relapse. In this base Hemlock certainly accelerated the Death of the pa. tient. This Species of Cancer is not confined to the Breast, but attacks the Back, Shoulder, arms and Segs. The Genuinus is found also on the brown of the Head, the Face and Lips. I shall here relate one other lave of the Cancer fungosus chiefly on account of the Method of Bure which was found effectual for removing it. A Lady born of healthy and sound parents had enjoyed for the greatest part of her Sife a pretty good share of Health; she was of a sensible and ivitable habit of Body. From In. clination and the persuasion of her Friends she did not suckle any ofher Children, in consequence of which after every lying in she was viezed to some disorder or other, sometimes with a pain and Swelling over her whole Body at other times with phlegmons or ordematous Inellings in the Legs or Abdomen! From these however she was always soon re. covered, till the Death of her Gather, which greatly affected her, who for the first time felt shooting pains in her left Breast. These continued

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for five years, they were always worse in bad Weather or when she exposed herself to bold or was frightened. No Scirchous Tumor was perceptible non did any part of the Breast appear raised above the rest, but the whole Breast appeared fuller and larger than the other. On the Side next the arm appear ed something like a Sinon or pack Thread. There was a fullness in the ampit with a pain in the arm which was constant and almost intollers. ble. There was also a Stiffness and Swelling in the arm in the same Man, ner as in the last Stage of an incurable Cancer where the Blood Wepelson compressed by the inducated Gland in the arm pit. It was therefore appre. hended that if a real Cancer should take place it would be insurable. She was ordered Hemlock and antimorial preparations without Welief. The Breast increased in Size, the Pain and Shooting in the upper part of the Breast towards the armfit and Neck became more violent and the Weight of the arm was intolerable. At length the Breast began to decrease in Size, but the armpit became fuller and a Jumour about the Size of a Hazlenut or Nutmeg appeared under the armpit but without the axilla. The Langer was now imminent and the only hope of Relief was to pro. cure young puppies to suck both Breasts particularly the affected one; this was very painful as well as disagreeable to the patient but there was no other hopes of afoistance. She at the same time took a very strong Time. ture of Antimony internally. This sucking was continued for six Weeks. the pain in the beginning and during the Sucking was very great in the Nipples and Breasts. after a bortnight's Sucking the pain and Sorenepower very much increased with a Swelling of the whole Breast, the patient was seized with a Chilly Fit which was succeeded by a feverith paroxym this lasted two or Muce Days. a yellowish Serum was discharged from the Mipples of both Breasts; this after some time went off and the patient was entirely cured, This Method bears a great Unalogy tothat used by the antients, who applied live Toads to draw off the Canverous Virus and thus frequently and the Disorder. A Treatise was some time

time ago published in the German Language on the Cure of Cancers by the application of Toads in which we are informed that the Experiment had been made and that it had proved susseful. Some years ago I met with a base in a British Magazine in which a buse had been perfor. med by this Method, we are there told that the Toads such till they fall off and die, we are also told that the Wirus becomes less hurtful to them every day). A Sign that no Virus remains is when this application does not cause much pain. Since that time I have heard of several Cures being performed in France as well as in England and Scotland by this elethat . The Toad should be put into a small Bag of fine Lawn or the Some should be conored with a Diece of Lawn before the animal is asp. plied when it falls to sucking immediately. If it is put on the open Sore it will not suck at all. This Method is certainly worthy of our attention and at least deserves an Experiment. If a real Cancer can be cured in this manner it confirms our Opinion that this Disease is not owing to an acri. mony of the Blood, but that a Cancer is a partial affection and is genera. ted in the place affected in consequence of Obstruction, Stagnation and for ruption of the Fluids contained in the Scirrhous Tumour.

Godly The Cancer Scrophiclosus is different from either of these. It un doubtedly owes its Digin to some internal bause; it is probable that it is of ten owing to some latent Veneral bause entailed by parents on their Chile drew, but so modified as no longer to produce Veneral Sores but to give in to the Sarophula and the Careinomata Scrophulosa. We shall here first premise a few Words on the Scrophula. We are told that some of the In-habitants of the Alps that lie between Staly and France and franticularly the Tyroless are afflicted with Swallings of the Mesket Throat which have been called Scrophulous, but from the imperfect Description given us of them we cannot judge whether they properly come under this Denomination or not. Those Swellings and Indusations of the

glands of the Neck and behind the Ears that occur in Children and often occasion or accompany breakings out in the Head, and are often produced by bolds are of little Consequence and do not deserve a particular attention; they either suppurate or go away of themselves, if they do not a purge or two will carrythem off: when they are tedious they may be discussed with a Mercure al plaister. They may generally be prevented by keeping the Head clean and not suffering the Hair to grow too long or thick. If these must have the Name of Scrophula we must give them the Mame of Scrophula be. nigna. Neither do we mean those Hardnesses and Indurations of the Glands in the Groiss which occur in Boys about the age of publity when the Semen begins to be secreted at which time the Symphatic Glands in the Groin will grow hard and some, but these soon disappear; they are calledly the Oulgar growing pains. Neither do we mean those Inducations of the Glands under the Chin produced by Tooth ache or bold and which soon yield to the peruvian Barks: Nor those Inducations of the Glands which accompa. my the Consumption and Sectio Fever where the Emaciation renders them more visible, unless the single Instance of Phthisis Scrophulowa. In the les phantiacis the Glands are hard and very perseptible, but it is still doubtful whether this is not occasioned by the Scrophula; it appears sometimes to be owing to the Venereal Virus. Of this I had an Instance in a Man with In. durations all over his Body very much resembling the Elephantiasis & which were in consequence of the Venereal Disease. But by Scrophula we mean large and small Tumors in the Glands of the Groin, armpits, under the Chin, in the Meck and Throat with sores. These Tumors are of diffe. rent bolours as red, white, bopper boloured and of a reddish blue, they are sometimes scabby like king thorms. They are produced by Cohabitation to impure persons or from parents or Murses. They are not unfrequently the Consequence of Unereal Infection; thus in a Gonorrhoa there is frequently

frequently an Induration of a Gland in the broin which remains after the Gonorrhaa has been cured and after every Symptom of the Venereal Disease is gone off. It resists the power of Merculy, and after repeated Salivations, Baths the external and internal exhibition of Sublimate it will at length require Exhipation by the Knife or Caustic. an appearance like a small Tendon or pack Thread is frequently percieved under the Shin, this is certainly an indurated Lymphatic the Contents of which have grown hard. If then a Scrophulous Tumor of Short continuance and which was evidently brought on by a Venereal Infection, is so difficult of bure, how much less reason have We to expect a bure when the Disease has been han. ded down from Tather to Son and the Wirus has become consentrated. This is the Reason that Scrophulous Cancers in the Breast are cured to the utmost difficulty and it is sometimes impossible to cure them even when they are near the Muscles or Sternum. If extipated they will break out again, hence it is so difficult to cradicate them. They may frequently be eradicated in the beginning by Mercurial Preparations, but if they have arrived at any Begness and have acquired Clorimony and Malignity, no Medicines would be effectual to remove them; they always in the end attack the Sternum and not seldom perforate the Cavity of the Thorax when generally speaking they are insurable and every Medicine will come too late. It is very difficult to know this from the former species and it is of the utmost bonsequence to distinguish them properly asthey require very different and even opposite modes of Treatment. The Scrophulous besides Extripation requires a long and prudent Course of Mercury, both internally and externally. In the former Species this Methodwill not succeed and Mercury aggravates them. It is of consequence to know one Spe. cies from the other in order to form our prognosis. A genuine Canier is a local Complaint and we may afoure our patient of a lesovery if the Cancer has been perfectly extirpated and the neighbouring parts not

Security against a relapse. The Scrophulous Cancer begins like the others with a single Scirchus and I know no difference in the beginning but that the Scrophulous is attended with small inducated Glandular Turnours under the Arms and in different Barts of the Body and always occurs in persons of a Bad on White sally State. There are also two or three Scirchie at the same time and in the same Breast: to the Youch they are not so hard and form as the Jenuinus and they have little or no pains untill they become ofm deres mor always much then. After they have advanced or broke they are all together in their Colour and appearance different. The Breast appears covered with blueith red Spots and is flat and as hard and firm as a priend Broard, the Integuments of the Breast being drawn in and contracted with species ought with propriety be termed Cancer retractus: hence the Breast sometimes appear as if a piecewas taken out.

The Glandula Subcutances or hardened Lymphatics appear like hard small Lumps of the Size of Beas which spread themselves up and down along the Breast hence the whole resembles a small brab and it is pur bably from this Species that the rest have acquired their Name. These dumps spread themselves up and down the Breast but chuffy to the Vide towards the Axilla above the Serratus anteress major, when these Sores Dry up they leave white Scars. The libs appear as if tied fast and the Cavity of the Thorax appears contrasted hence tespisation is impeded. This Species is selson owing to Papions of the Mint and the Patients can afrigan no Cause non inform us whence or how they took their Origin: They often imagine they are produced by Phones Contuinons or Prepulse. The other Species are generally owing to Papiens of the Mind and attack the most healthy per sons whilst this commonly occurs in persons of weakly Constitutions with a lead state of the Humours. The Bace is generally of a leaden and sallow the with a Kedness and Sorene pof the Eyes, diseased Eyelids, chafid

Sips, a puffed up or emaciated Countenance, and appearances like King Worms in the Hairy Scalp. There are also indurated Glands in the Throat ampit or From: Tumours in the Skin appear and vanish; the Skin ap. pears hard and dry When the Disease is at the Height the Colour of the Breast is like that of an Engerpelas or of a Copper Colour: there is also a heat and Vapour which arises from the Part which is peculiar to this species. The Inflammation is always greater after an unsuccessful Extripation than before. If the Disease begins in the armpit it advances, into the Breast; as it is moveable and leaves a Straitness in the part in it occupied it frequently affects different parts of the Body at the same time. The Sores have a very different appearance, some discharge a thick well maturated pus, others disharge a thin fatio black Schon; some heal up whilst others remain open with white Edges resembling fat Bacon, in others the Edges are red and fungous, some are constantly covered with a Dry Scal or Sourt which increases both in Height and Corcumfe rence unless softened by emollient Applications and made to fall off. This is the most malignant Kind. It sometimes extends from the Head to the Groin covering the whole Body; this denotes a total Depravation of the Humours. These Scirchi when small are often discussed by Mercurial Ointment & by Darm, Emollient Cataplasms. M. Guy discussed many by this the thod and the application of Harm fow dung over the Tumor. Then are Instances of their being removed by a long continued and strong ther. curial Course as for the Unereal Disease: Of this the following is an Instance. It Lady was first affected with a Causer when she was near her 40th year, she had it twice extirpated out of one Breast after Extir pation and healing of the Ulen it broke out again and the other Breast was also found to be affested; it was increased to double its na: tural Size and was very hard, at the same time there were indurated flands about the Meck and Throat. Two Drachms of a strong Mercurial Oint ment were spread upon Seather and applied over the whole Breast, this

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was repeated every other Day: She at the same time took Mercurials in large quantities, by this Means several small Scirchi were discupsed & a tightness was percieved over the whole Breast and rendered the further application of the Cintment improper, this went off in a few Days and the Breast was restored to its natural Size, but the Scirhous Hardness in some manner remained and on this account she returned to her former Course Astrong Solution of Sublimate on Sint was applied to the Sores this kept them clean and in some time destroyed the Canserous quality altogether . At is in this particular species and this only that Remlock is attended with advantage, and it is owing to the improper Adeas which physicians have had concerning bancers that they have entertained such different Opinions on the use of this Remedy; amongst these we must rank Do Stock himself. The following can show the good effects of Hemlosko. A Gentleman had a cancervius Sore in his Face which exten. ded over his Check and Mech; this discharged a thin facted Ichon whil gave to the Lint the Colour and Smell peculiar to Cancers. In the Month of December 1762 when no Hemlock could be prosured, he was ordered to take the perusian Barks, Wine and Opium to ease his Pain and to ap. ply Tincture of Myork to check the Discharge; he continued this Course for some Time. At the Expiration of six days it was found that the six order was increased rather than diminished, some Hemloch was then procured which was too young, from this however an extract was made of which he was ordered to take two grains morning and Evening, he continued this Course for some time, but recieved no Benefit from it. In the middle of January some more Hemlocks was procured which was older of the Extract procured from this he took six grains threating a day, the Bark and other Remedies were continued at the same time. From this time all his Symptoms became easier, he felt no pain, the Alcer did not extend farther and he sleft well without his

usual Dose of Opium. The Micer put on a more favourable appearance with soft Edges and discharged from the whole of it instead of the acrid Johor a well maturated pus. By the middle of the Month the Ulcer look ed as if it was going to heal and he was so much better that he could walk about. all his Friends flattered themselves with his speedy recove. my tho but a few weeks before they expected to love him. But imfortunate. by the Extract of Hemlock was now exhausted and they could not prome any more. From this Time the Ulser continued to grow worso the But and other Remedies were continued all his Symptoms were aggravated until his Death which happened in three Weeks from the Time he left off. the Hemlock. This base establishes, more than if the bure had been frem feet that the Relief was owing to the use of this Remedy, for as the Bank and other Remedies which he used at the same time with the Hemlock were continued after hi left the use of the Hemlock of and his Symptoms were notwithstanding immediately rendered worse, it ap. pears evidently that all the Benefit was owing to the Hemlock and that he died in all human probability from the Want of it. It appears also that the Canser was of that kind which we have entitled the Scrophulous and in which the Hemlock can be used with Sefety thecef In the two former Species it is unsuscepful and hurtful. Cancers in the Breast are always owing to Scirchus. This in the beginning is small and moveable and may easily be moved from one part to another, but af terwards by the Degrees we have enumerated arises at its Height. all Sones and Alleers in the Breast, whether they extend more or less in Breadth on Depth with hardness and redness of the Edges or whatever dis agreeable Symptoms they put on unless they are originally owing to Scirches never desirve the Mame of Cancers. It may happen that soft Swellings and for gestions beginning in the Skin on like Tumors from That in the bellu. las Membrane or more deeply seated as Boils, Fisheles, Erysipelatous

Tumors and Rheumatic affections of the Muscles and Congestions of So rum or Tumours or Sores from the Venereal Infection, I say it may hap fren that these Swellings may spread and attack the neighbouring parts, but notwithstanding they appear dangerous and dreadful, they are not nor will they ever a summe the Mature and quality of a fan. cer: they likewise require a particular method of creatment I do not believe that a real Canser is ever generated from Congestion of Milk in the Breast, for Women who have no Milk in their But and who never have had Children particularly barren Wives, are more affected with these Complaints than other Bornen. They are generally produced by violent Passions of the Mind as long continued and silent Grief or sudden Terror in Persons of a Weak writable Mervous System, or by external liolence or from ill made tight stays or from insproper Good, the abuse of Spirituous Liquors or a sedentary inactive Sife, all these and others af a like Mature have brought on a Scivilius and fam cer. It has sometimes happened that a real completely formed Scientis has been discuped in consequence of Congestions of Milk and the To. bus lastea in lying in Women. They are most effectually prevented by timely marriage and bearing of Children, which the patient suckles herself. It may sometimes happen that Jumors from Congestion of Milh and a Sirrhus may take place at the same time. The hardness of the former is often discuped by resolution of the Milk which is dischar. ged this the Nipple; if this does not happen of itself it may be promoted by warm emollient Cataplasms; but it more frequently happens that a Listata is formed and in this base the Asetum Sithargeric applied in a poultise is the surest and most effectual in affording Relief. But whilst the former or the Tumous from longestion of Milk is resolved the Scirches is converted into a Cancer. In this Case the Melb wood be improperly accused of producing a fance. The best Method to prevent Canusas Concerous Affections is by a proper Education to quard against weak Meroes and an invitable Habit of Body. If they marry at a proper time of Life, they should suckle their own Children themselves, they should not use tight Atays which by compressing the Depels prevent the proper Strength & Digoin of the Circulation in the smaller Depels by which these are kept free from Obstruction and Congestion. This Cancerous Disposition will not be corrected if there is a Tendency to Scrophula but its appearance in the Breast may be quarded against by these Methods. As the Scrophula is an horiditary Disease it requires active Medicines to prevent its breaking out or to remove it.

When a Cancer is not radically exterpated it returns with morelle olence and fuits on worse appearances than at first, this appears to hap hew in the following manner. By the Extirpation the Seirches or Can. cer is irritated and the confined humours are set in Motion and car. ried to the Meighbouring Parts by which the Disease is commission. ted to the neighbouring Glands or to the whole Maps of Blood. Then therefore a Scirchus appears completely formed in the Breast we should not delay Exterpation untill it has degenerated from a small indolent Tumon to a large and painful Swelling and an open Allers, for by this time it may have communicated the Cancerous Virus not only to the whole of the Breast but also to the Merus and other internal parts. We should be very circumspart when we eradisate a Cancernot to leave any part of it behind lest it should afterwards increase and render the base desperate. There have been at all times different Opini. one with regard to the infectious Mature of Cancers, some afecting that they are whilst others deny it. The following bases tend to show that open Cancerous sores are infectious, at times at least, whether they are always so cannot be determined. A Moman was afflicted with a severe and insurable Cancer after sleeping twenty years in the

the following base if it is true is a very extraordinary one indeed. Asaly fainted away on seeing a bancer in her Briends Breast. The Maidin attendance to recover her from this Fit housed some Water down her Throat in which a Surgeon after drepping her bancer had dipped his m. struments and Shonge. The was afterwards afflitted with Sores in his Mouth and Jaucas which soon proved the Cause of her Doath. The Soads that have been applied to bancerous Loves are said to expire son after they have sucked them. If the Fact is so, it confirms an Opinion that the Cancerous Virus may he infectious. A tradesman of Nothingham endeavoured to relieve his top who laboured under an incurable Cancer by drawing off the Hints by sucking her Nipples: Dr. Becket who records the Case tells us thathe soon got a violent and incurable Cancer in his upper Lip and Jum of which he died.

and the different Expects which the Basions have upon them we may in some Measure explain why Cancers so seldom orcur in the Breasts of Men unless they are of the Scrophulous, and there are scarcely any in stances of Cancers attacking there parts in Men. Ellomen are selom attacked with Cancers in the Lips: these on the Contrary are common to Men. These are not produced by Passions of the Mind but generally owe their Origin to smallingons decable Pimples on rather external affections nehish have been converted by Paritation and improper Treatment into Contrary, especially if there is a predisposition in the System thus we find britical cruptions appearing on the Body particularly the Base in the form of Scales Scales Wants be. An Obstruction is sometimes formed in the Extremity of an Exhalant Depel, the stagnating Matter in these Cases, by length of Time and improper Treatment, especially

forms an obstincte Canserous Lone. In Consequence of the Humours that were confined being but in Motion open running Lores are produced. These were confined being but in Motion open running Lores are produced. These do not only attack the neighbouring parts but at length extend to all the Humours in the Body, which are corrupted. This happens only in Consequence of old ill placed too long neglected or improperly treated fores of a Cancerous Mature. Cancers are not however always owing to an acrimony of the Blood, for if this were the Case how would it be possible to cure a Cancer by Extripation with the Snife or Guys

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powder. Physicians are aft to confound Cancers and Venereal Somes, particularly in the Breast we shall therefore consider the Characteris. ties of these and point out how they may be distinguished from each other. It is of the atmost a importance in Practice to do this properly, for in the one we may always certainly promise Telief, which in the other is always unrertain. Venereal Cases put on Carious appearances in dif. ferent parts but it is chiefly in the Breast that they resemble and are mistaken for Cancers. In the Breast they are of three kinds or there are three Stages the 1st are the Ollera purulenta cutanea, the 2nd Gan. grenous the 300 are attended with a hardness that begins in the be nosteum of the Ribs. The first are distinguished by their white Moughs which resemble fat Bason and by the hardness that accom. panies them. In the Unereal Disease the Hardness begins at or about the Mipple which becomes red and inflamed with pustules which afford Matter. Sometimes there are Blotches or Spots of fistulous Meers of about the size of the small end of a Tobacco Dipe which discharge and chos or Sanies. The first Species is attended with little or no danger.

The second Species or the Jangernous puts on frightful Symptoms and

most resembles the Disease called by Johnsicians Noma. It eats away

or rather mortifies in Septh and Greadth and will quickly consumeth Substance of the Breast; they are not attended with much pain. They are distinguished by the Northes of the Tumour. The following base will give a proper Idea of the Disease and the Method of Just which was effects. al in removing it. A Woman about 40 years old had a considerable tel. cer in her Breast which was supposed to be a fancer. She had very large Breasts, and in the lower part of one of them she had an Alcer large e. nough to admit the First of a Man; this appeared of a blackish brown Colour and looked like one mortified piece Towards the arm a convi derable part of the Sendon of the pestoral Muscle was laid base the Skin was of a reddish Yellow and lead Colour, the Edges appeared even and smooth and the hardness extended about half an Inch round the Edges of the Alcer: the Glands in the armpet appeared swelled Ob. serve; from the Softness of the Edges, the manner of coming on and the smoothness of the Ulser it appeared that this was not a fancer but a Venereal Sore: it was acred in the following manner; attrong Solution of Sublimate viz. 4 grains to an Ounzo of Spirit was ap. plied upon Sint. The Ulcer was filled up with Sint moistened with this Spirit, a sticking plaister was applied to confine the Sint; this was re. newed every day once. In a short time the mortified black flesh began to seperate and the Ulser became of a bright red Colour. The Ulser dis. charged good few and the Inducations vanished: in three Weeks the Sore was replenished with Glesh and in a Month was perfectly cured without the Use of any other Remedy either internally or externally. Similar Cases in grown persons and Children have been cured in the same manner. The sore should always be kept moist with a Solution of Corrosive Sublimate and this Medicine should at the same time be gir ven internally; this will always check the Mortification in these bases when the Common antisepties will be of nouse. The

The third species of Venereal Ulser or that which begins with a hard : nep in the periorteum of the Ribs is very uncommon! The following Cases will tend to make you acquainted with the Nature of the Disease and the Method of lune. I Man aged 40 had a small Tumour that ap. peared to a dhere to the Bone immediately, this increased to the Size of a Hazlenut; a shooting was percieved and after a few Weeks it increased in Height and Breadth with much pain. One half of the Breast was indurated with an Elevation of the Ribs. The other part of the Breast was raised but was fost and moveable, the Skin was not discoloured. He as. knowledged that he had had Venereal Complaints in the early part of his Life but that he had no Symptom of it for many years. He was or. dered to use the Solution of Sublimate internally and externally. He took four table spoonfuls of the Spirituous Solution in a day, and at the same time applied Compresses moistened with an agreeous Solution to the Swelling. In a few Days the pain was removed and the Swelling dis. appeared except the original small Tumor. As it was very disagreeable to be confined merely to keep the Compresses moist with the Solution, Mer. curial Ointment spread on Seather was used in the room of it. He still continued to take the spirituous Solution internally; by these means the Tumor was very much softened and diminished. It after some time opened and discharged a thin Matter. It at length degenerated into a Tistula which was cured by the preparations of Lead. The Tibo re. turned to their former fooition - Much then will depend on the Jug. ment of the physician in these Cases and he should try Merewials with much Encumplestion. If he commits an Evron and does not soon discover it he will do irreparable Mischief . In a Scrophulous Canser if he trusts to Extirpation alone he will only aggravate the Disorder unlep he at the same time gives Medicines internally to eradicate the Disease totally from the ystem.

Cancers in the Tonque do not often occur; when they do they may be distinguished by their hardness: this however can scarcely be felt and not described. The external Oppearance may do something towards distinguish. ing them, but after all the Touch is the best Criterion. Cancerous Somes in the Tongue are red and of one Colour, except the blueness of some parts which is owing to the Varicose Veins. When far advanced they appear rough with bissures or Insisions. Tound the Fisures appear many Tubercles with considerable hardness. The Venereal Sores are soft to the South, they are sometimes rough when they have an adipose appearance. They appear internally of a yellowish red and have a whi. tish Discharge verging towards Green resembling the Discharge in a Jonorrhan The difference of Colour is owing to the different Consistence of the Sanies. These Ulcars are sometimes of the Gangrenous kinds when they are distinguishedly their Softness and their bolow of a dirty brown; they prove fatal in a short time unless treated as they ought to be. The following face will tend to make the Disease familiar to you. a young Gentleman was supposed to have a Cancer in his Tongue, this was treated accordingly with Hemlock sinternal. ly and a Gargle of a Decoction of Semlock externally, but without advan. tage. More than a fourth part of his Tongue was destroyed as if ent. away with a Anifo. The patient could not speaks, and even Siguids were swallowed with Difficulty: he became emaciated, his Countenance was palled, his Check Bones high, he had a patid Breath, a Hectio The: ver and a continual Salivation as if from Mercury, the he had not taken a Grain of it. The Allew appeared of a dark brown was soft to the Touch and not very painful; whon enquiry it was found that he had had a Gonorrhow and Bulo, which to appearance had been ra dieally cured. From this and the appearance of the Allee and the

rapid progress that it had made it was judged to be a Benereal Case I that it would admit of a bure. This was effected in three Weeks by pills of balo. mel taken internally and dressing the Sore with Sint moistened with a Solution of Corrosive Sublimate. At was remarkable that when the Sore was filled with Lint the patient could speak so as to be understood but when this was removed he could not articulate a Syllable. When the patient look Victuals the Sove was filled with dry Sint when he could smallow with can as soon as the Repast was finished, the Sint moistened with the strong So. lution of borros. Sublimate was again applied. By these means the Sorewas Soon replenished with flesh and in three Weeks was entirely and leaving only a trifling bend or crookedness on one side. From this it is evident that it is of the utmost consequence to distinguish properly between Cancerous and Venereal Sones, for as certainly as Mercury relieves or cures the one Disease it aggravates the other. It is remarkable how Physicians have confounded theso. D. Akenside is an Instance of this in a piece on Cancers in the Chancastions of the Royal bollege of Pohysicians at Sondon: He tells us that he found Hemlock would mitigate the pain in some lases & sometimes he experienced the most happy Exects from Sublimate and os. casionally he found the Peruvian Back of Service, hence he was led to try the Effects of the three combined on at least to administer them at the same time and he tells us they were attended with great Jucceps and how fortunate he was to discover a Remedy to cure Cansers in the Jonque and Lips especially when recent, for when they were old he found his Remedy ineffectual. He particularly describes an Alleer in the Tongue an Inch in length of a white bolow and another in the under Sip altended with Heat and Pain and were very foul with Fissures which appeared of a brown bolor and discharged matter of a yellowish green folour Both he tells us were cured by a Combination of these three Remedies

the the Sublimate deserves the most credit of the Cure for this was given in 1/4 of a Dose twice a Day. Tis evident that this were of the Ulemereal kind, had they been real Cansers they would have been aggravated by the Mercury. It is astonishing how Dr Stork falls into the same Evror even in his late publication on the bure of bancers by the Tlammela Jovis. He relates bases which from his own account appear to be the Lues with Ul. cers on the Sips and Lace to which he calls Cancers and cures them spee. dily with the powder of the Glammula Jovis. Cancers on the Lips & Face may be distinguished from Venereal Whers by their coming on gra dually and slowly In the beginning they occupy a small space and appear like small Moats or uneven Scales, sometimes with a perseptible hardness in the very Substance of them; in their inner Part they appear dry and red; if they are not red they are of one bolow, they never have yellow or white Sloughs. The nervous papillo appear clivated like hard straight Bris thes; in others they appear only as dry white elevated parts. If they tend much inwards they have hard reflected Edges, if they are only superficial they are without proper loges and appear like Warts with exect Bristles They discharge a thin Sanies. Some appear thorny like the Spur of a focks with a little Soreness and Inflammation at the Basis. Tis seldom that persons apply for Telief till they are incurable because at first they do not appear to them of much Consequences. The Ulenereal Ulers pruft up with soft, shongy clastic Edges and increase as much in a few blecks as Cancers do in as many years; this is a pathognomonie Symptom and it never takes place but in Denereal Ulsers; they have a foul Disa. greeable appearance which greatly alarms the Patient Cancers in the Lips and Face are generally produced from small dry Sones of a warty appearance which have been considered of no Consequence not much regarded. All Sores which discharge a thin humour and are covered with a then Pellisle and which do not heal soon are to be con, sidered

considered as of a surprisions Mature. In general these small Tumors are not much regarded and never suffected untill they degenerate into real and ineurable Cancers. Of this the following will afford us a very me. lancholy Instance: Ayoung Gentleman had many dry Marty appear rances with grey scally Blotches in his face to which he was advised to apply Oleum Partais her deliquium, this produced Cancerous Soras. For these butting, Salivation and the Butyrum antemonic were employed by these the Sore degenerated into a Canser which oscupied the whole Chat It is probable that these Eruptions contained the Cancerous Virus which re. quired only external irritating applications to set it in action and wil probably never would have been attended with any bad Consequences or would in time have vasished entirely had it not been for these applications. Another gentleman of a healthy sound Habit of Body him. ched off with his Nails the Head of an immature pimple, a small Drop of Serum appeared in the Spot and was renewed as often as it was wifed off. The Base appeared hard and indurated and it increased in Size. The Sapes informalis, Verdigris and other Causties were applied but they only aggravated it. Salivation was then employed, but it only increased the Disorded She lost his Mose, half the lyelds of both Eyes, both the Checks and the upper part of the Sip before a period was put to his mi. serable Existence. If notivithstanding all Thave said you should still be at a loss to distinguish bancers from Venereal Sones, the following Method is always infallible: lover a part, or if small the whole of a Cancer with levigated Calomel, cover this with a sticking plaister and let it lay for 24 hours, if the Sloughs and the Sores fut on a more favourable appearance this confirms it to be of the Venereal kind; ifit is aggravated it is a Canser. I have thus endeavoured to give you a proper knowledge of fancers in order to ascertain the real virtues

Cancer geneinus, Lungosus and Scrophulosus; all these originate from Scienti. All of them differ from one another in their Mature and fux. The two former are entirely local, while they admit of a bure, which can be performed only by Etispation for which Guyo powder is effectual when the Dinife cannot be employed! Mercurial! Chalybeates and blemlock are injurious. The Scrophulous Cancer is connected with a Disordu of the System and Constitution and cannot be cured by Topical Applications unless internal Medicines are employed at the same time In this Mercury, Chalybeates and Them lock are proper Medicines and will seldom fail of affording Celief if they are administered sufficiently early in the Disease It is prequently an Heriditary Disease and entain leading Parents on their Children: it is sometimes the Consequence of a Plenercal Infection and affects different parts at the same time in consequence of which both Solids and Eluids are affected.

Sam now to make some Observations on the various topical applications for the bure of Cancers which have been made use of by different Persons. But previous to this I must mention the internal use of Arsenic in the Cure of Cancers recommends Cancers. Dr. Se Peberse who has published a Treatise on fancers recommends Arsenic as an affectual and safe Remedy for the Cure of Cancers when gir ven in the Manner he directs. Sour Grains of clear white and shining assenic in Chrystals is to be dispolved in a point of distilled Water; of this a Tableshoonful is to be taken once a day for the first & days with an equal quantity of Milk and half an Ounce of the Syrup of Pope an equal quantity of Milk and half an Ounce of the Syrup of Pope is to be given to be given for the next & days twice a day; after this it pies; it is then to be given for the next & days twice a day; after this it is to be given 3 times a day. If the Persons are strong and robust we is to be given 3 times a day. If the Persons are strong and robust we is to be given 3 times a day. If the Persons are strong and robust we have the quantity dispolved may be increased the six grains and finally

245. finally it may be increased to eight, but must never go beyond this last quantity. He tells us that it is safe and sure in its Effects. Sustamond applies Orsenic in a Variety of Shapes with a view to as. certain the effects and to determine the proper Method of applying Blunkets, Remedy. Upon M. Guy's Remedy acquiring a great Reputation for the bure of these Disorders it was suspected to be the same or very similar to plunkets powder of which arsenie is the Basis; an account of plun. kets Remedy you may find in the Sondon Medical Says. By Justa. monds account it appears that plunkets Remedy has very nearly the same good effects as Juys powder. From a Wariety of Experiments the Effects of which were always similar, he was convinced that it is not always a safe Remedy he therefore abstained from continuing to employ? it the with regret untill he could find some me and of securing its valuta. ry without its deletenous Exects. Justamond particularly accuses it of pro. ducing various spasmodie affections of the Muscles particularly those of the Eye. Tis remarkable that the Medicine that was employed here some time ago for the bure of bancers was observed to be attended with the same Effects. There are two Fasts which tend to show the Truth of this Observation of Justamond. When I was in the West Indies I was informed that a per. son in the Island of Anguilla possessed an infallible Remedy for the bure of Cancers and that one Gentleman in particular had been effectually ou. red without any other Inconvenience than that it had left a paralytic affection of one Eye It was not till Decame acquainted with Justamonds Observations that I was able to a sign a faire for this phonomenon. The other was communicated to me by a physician of this bity and there can be no doubt of its Moracity: And Rodman was called to a Mooman who laboured under severe Thas modie affections, these yielded to the usual Remedies and went off in a few days Sometime after he was again called when he found her affected in the same manner; he

particularly observed that her Eye was affected with Spasms and Symptoms of palsy. As the Doctor had just then been made acquainted with Justamonds Experiments he made particular Enquiry into the State of the Cancer which he before knew she laboured under, he was told that the Night before an application had been made by Mr. Martin of his Remedy which was then famous for the bure of Cancers: He was sometime after again applied to and found that the same Remedy had been again applied and attendes with the same Consequences and this happened repeatedly. The Doctor was now no longer at a loss to assount for the Matine of the Complaint. The young Woman was afterwards removed to Wilmington and when I last heard from her was in a truly pitiable Situation. The Canser remained incurable with exerciating pains that thew her into Convulsions with a los of her Reason. Guys Medecine is not effectual in all lases of Cancer. Mr Juy was himself sensible of this; he appears to have been a regular bred Sur. geon and a Man of Anowledge in his profession and in many cases declined to apply it when from the Mature of things it appeared that it could not be of any Service. Dr. Berken whom I knew well and with whom I was whon terms of themost intimate Friendship never considered it as infallible and in many Cases declined to recommend it. Where the Knife can be employed it is a more speedy Remedy as well as more offertual and less painful than Jury's or any other Caustic. Cases may occur when from the Situation of the parts the Knife cannot be applied or at least not without great Inconvenience, here we may have recourse to particular applications of which arsenie is the Basis. From Se Februs's Observations and Justamonds Experiments it is evident that aromic will prove effectual and does not always produce deleterious Effects. The Arsenic may in some Cases have good effects yet cannot recommend its Use to you! this must be left to the Decision of every persons own Judgment. We should never meddle with a Cancer or give

Hopes of Relief when from the Mature of things a bure is impossible. In incurable Cancer may be palliated by a strict antiphlogistic Regimen & Opium. Justamond recommends washing it with a Solution of the Ho. res Martiales for this purpose. Every unsuccepful attempt to exterpate a Cancer aggravates and renders it worse and lays the Foundation for Dis. orders of the System. Experiment has at length justified my Opini. on on the Composition of Martin's powder. Dr Rush by various Expe. riments has reduced this matter beyond all possibility of Doubt and de. termined that arsenic is the active Ingredient. All the Remedies that have been recommended as Specifies in this Disorder are of a similar Ma. ture. The mildest way of applying the arsenic is in Solution. It should be used with Caution, Circumspection and perseverance: where the Ban. cer is curable it often is attended with Success. It is also used with advan tage in other ill conditioned Allers where the usual Caustics do not produce favourable Effects. We should not apply it to a large Surface at once. If we employ the powder it should be used only in small guan. tities and then it is attended with little or no pain; in applying it we should mix it with a Solution of Gum Wrabie this Jam informed was the Mothod always employed by Mr Guy?

Belladonned or Solanum Sethalo is a plant of a very virulent mature. The whole of it is virulent the the Berries and Roots are more so than the Seaves, even the Leaves when infused in Mater are of a narsotic Nature and will induce Sleep. It is often hurtful to the Eyps and sometimes will bring on a temporary Moturthetand ing this it has been used by some modern physicians for the Care of Cancerous Complaints in the Breast. Juncker gives the Cases of two Comen who were cured of Cancers by a strong Decortion of the leaves, he gave one Spoonful the first Day, two the Second and three the

the third till it brought on a Drowsines; it was continued in this Dose for two Weeks: He then gradually diminished the Dose. He tells us it was not always attended with Succeps. The celebrated Surgeon Heister gives us the base of a Woman who was deprined of her Keason by the Use of the Solanum Sethale tho' it did not cure the Canser for which it was employed. Lamberger tells us of a Cancer of the Breast that was cured by the Remedy which was taken for 17 Months. The Ancients as Galen, Egine, to and others employed it in Cancers externally. Haller informs us that he could never observe any good Effects from it externally applied. The following Case you will meet with in Dr. Cullen's Sectures on the Manteria Medica.

A Woman born of a Mother who died of a Concer and her Son had, the one a Cancer in her Lip the other on the Check near the An. gle of the Eye. The Son who had the Causer in the Sip got the Bella. donna, began with half a grain and by Degrees had the Dose increase to twelve grains of the dry Herb which produced a good pus in the Would prevented its spreading and healed it up all to a small speck covered with a Scal. The Medicine had produced a Heat and afterwards a Constriction of the James, from which it was given up. But the ban. cer afterwards breaking out recourse was had to the Belladonna and with the same good effect as before but with the same Constriction of the Facus. after this the Sad was seized with a Morniting of Blood and died. This Vomiting of Blood Dimpute to the Belladonna. Inthe Mother the Canser was of fifteen years standing and bigan a small Erosion which gradually extended to the Eye. She used the Belladonna very cautiously and soon found relief from her pain, the further extent of the sore was prevented, good Bus formed and at last a Contras. tion of the Soro. In this State she has continued for these four years; whenever whenever the Sone again renews she has recourse again to the Medicine which effectually prevents its extending; may, sometimes she goes so far asto make it contract a little but never so much as to heal it up entirely.

It is evident that the bancer in these bases was of the Scrophulous kind . It would be safe to repeat the Experiment with the Solanum Se. thate: it would no doubt be hurtful in the two other Species upon the same principles as the Hemlock and some other Substances. From the account we have given of fancers it appears that Johysicians are very vague in their Treatment of them owing to their indeterminate I deas of these Disorders. A Variety of Medicines have been recommended at different times for the bure of these Complaints. We have established that internal reme : dies are only useful in that particular Species of Cancer which we term the Scrophulous and that they ought always to accompany external Up. plications. That the Cancer Genuinus and fungosus are local and to be cured by topical applications: when the Cancer is situated where the knife can be employed this is the most efectual , least painful and shor. test Method of removing it; when the Knife cannot be employed we have recourse to Causties of a particular kind which exadicate it without ivitating as Mercurials and Antimornials are known to do. of these Guys powder of Sondon is found to be the most effectual. a Gentleman of this bity went to England on account of a Cancer, he there put himself under the base of two physicians and two Surgeons who tried a variety of Medicines to relieve him but to no purpose; he then applied to Mr Guy who cured him in a short time. Various attempts have been made to discover the Composition of Mr Guys powder! from every Consideration there is the greatest reason to believe that Arsenic is the Basis; and that it was long possessed by a Family in Ireland of the name of Klun. Hyoscy amus ket.

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Tyoscyamus or Henbane possesses very considerable Marcotic Virtues, even Diascorides long ago observed that the Use of it confused the Head and Understanding and produced Drunkenness as if from the Use of Spirituous Siguors. (Boerhave tells us that as he and his Companion were making the emplastrum a Ayascyamo they were both siezed with a Trembling and Giddiness from the Exhalation of this plant. Haller gives the Case of a Rollow Student under Boerhaave at Seyden who made it a practice to taste the various plants which grow in the Medicinal Garden of that Institution even some of the most poisonous; whom lasting theden bane he was deprived of his reason and affected with a paralysis of one Leg from both which he was recovered by Boerhave. The Seaves bruises or boiled in Milks are used externally in pains and Swellings likewise in Spasmodic pains and Diritation without Swelling where they are applied to the part affected. It has been recommended for various internal Disordus. It has been employed in Catarrhs and Homorrhages where it answers the same purposes and acts on the same principles as Opium. It has al so been recommended in the Dysentery in the place of Oficers: I have true it in the Dysentry and found it generally attended with good Effects; it took off the pain in the Abdomen and Tenesmus without checkingth Discharge by Stool as much as Opium. In one or two Instances I found it remarkably direction. The best way of giving it is in extract from helf a grain to two grains for a Doso. De Hork resomments it in a variety of Cases but as Shave had no Opportunity of experiencing its Effects in the Cases I must refer you to his own Treatise.

The next is the Nicotiand or Tobacco; for this plant wear indebted to the Southern provinces of North america. It populars asing gularly acrid and volatile with somewhat of a nauseous Odor and taste. It is a Sumulant and Marcotic. It is nauseous and virulent and att

as a purgative and Emetic. It disposes to Sleep in persons not accustomed to its use. By continued Use it loves those qualities and may be chewed and smoked without Inconvenience. It is sometimes useful in habitual Costiveness and I have known persons who have become regular in this respect from smoking it. A Gentleman whom I knew was very much applicted with the bolie; by the advice of a London physician he assumed the practice of smoking To. bacco; from that time he had no return of his Complaint. D. Lwinger gives us the History of a periodical and habitual Evacuation of Blood from the Lungs which was cured by smooking Tobacco. But the principal Use of it is externally in Glyster either in Infusion on Smoke which is injected by a particular apparatus into the anew and in this way is often effect tual in obstinate Obstructions, in Colicky pains, strangulated and confind Herma if they have not subsisted too long, and in the Tympanites In the second adume of the Edinburgh Medical Essays me have an ac count of the external application of Tobacco and Vinegar resolving or discussing a hard Tumor in the Hyposhondrium and we are told that it excited a Comiting; it was owing to the Comiting that the Sumor was removed for by this the parts were compressed and the Uepels ex. cited into action. A floorge Infusion or Desoction of Tobacco has been lately recommended as an effectual cure for the Dropsy. a physician has lately published a Treatise in which he highly recommends it. We should begin with very small Doses not more than from 20 to 25 or 30 Drops and increase it gradually. I have tried it in two bases but in both it was ineffectual: this however is not altogether a proof against its Usefulness for in these Cases no other Temedies were attended with any good Egets It has been recommended in Decortion for foul Allers but we should be very careful not to apply it in fresh Sores. It has been known to occasion borniting and forwalsions by the Initation, which

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which it produces. Its internal Mse is very uncertain and always attended with doubtful effects. To some Stomach's it is so disagreeable that a small Quantity will excite Mausea and Mometing. Some have recommended the Syrupus Nicotiana in all Catarrhs and Plectoral Complaints that have continued for a length of Time and it appears well calculated for a per toral. When we intend it for internal (Use we should boil it for a considerable Time in Water by which its acrid and nawseous parts are we porated and it is rendered lefs liable to excite Momiting)

Lauro-cerasus. By the accounts given of this in the plus losophical Transactions of Sondon it appears that it is a poison & nar. cotis rather than possessed of any Medisinal Virtues. Tis there proved that both Man and Brute suffer from the distilled Water of the Lauro cera sus. But we may here remark that we must not altogether trust to be periments made on Brutes with a view to determine the medicinal qua, lities of any Substances for some are poisonous to them which have no such Effects upon the Auman Body; thus Hemlocks immediately kills bows and Human Beings; Bitters are very disagreeable to Dogs and even sometimes destroy them whereas in a small quantity they are rather friendly to the Human Constitution. We should therefore when we make Experiments of this kind always enquire whether the animals are affected by these Substan. ces in a particular manner. The Laurel is certainly however a strong poisont. the Human Constitution. An Instance of this occurred in England some years ago and was published in a Sondon Magazine. A person had married the Sister of a person of great dortune, he was desirous of hopely sing the whole Estate but the life of his Brother in Law stood in the Way; during an Indisposition he administered to him a Draught of the distilled Saured Water instead of the Medicine which the Doctor had prescribed this killed him in a short time. The brime was afterwards detected and the perpetrator of it executed.

Saffrons

Saffron! The real Medical Dirtues of this Substance are not proper by ascertained: whilst some suppose it of superior Virtues others consider it of little bonsequence in the Materia Medica; both these Opinions are in some measure just. If given from one Grain to five the Dove in which it is usually prescribed it is trifling and insignificant but if given from It to half a Drachm it may no doubt have some Effects on our System but even than scarcely equal to what the favourers of this Medicine suppose. Bover, have supposed it useful to strengthen the Merves and existe the animal She, rits. Galen, Borelli and Dan Swieten toll us, when given in large quantities it immediately makes the person heavy and drowing and will even bring on an apoplexy. Given in moderate quantities it raises the Spirits and will even occasion immoderate Dits of Laughter

Ted and boffed are ranked under one Head the of a very different nature however correspondent in some of their effects. Ted is undoubtedly a Sedative and Marcotic. It propelses this quality in a much higher degree when fresh than when kept some time; but even after it comes to us it some. times affects very irritable Nerves and weak Stomach's very considerably Iknow some persons who from taking a lup of Green Tea moderately strong had immediately shasms excited in the Stomach and other parts of the Body. By many its bad Effects have been attributed to the relaxing quality of the Warm Water and they recommend Tea to be taken strong to ob. viate these Effects but they are egregiously mistaken. I know persons who take weak Tea with impunity who are immediately affected with spaoms Tremore and various Mervous Complaints when they use strong Tea! Green and Bohea Tea are said to be the product of the same rice. The former consists of the Seaves which first put out in the Spring which are more tender and delicate; the latter is of the second Growth and collected in Summer and is of an inferior quality and Thavour. Whatever are the original qualities of logica, they are much altered by

by our manner of preparing and using it. Its Virtues are owing to its Empy, reumatic Oil, all of which are as we know, antispasmodic and Sodatives. It is certainly possessed of some Virtues: it has been found useful in Shas. modie affections of the Bowels. Dr Pringle found it useful in the Shar. modis Asthma when it is to be used as a Medicine: it is to be taken very in and drank without Sugar or Gream. I have always found it hurtful in the Dyspepsia where it is always attended with Indigestions, Hatulen cies and other Disagreeable effects. The great Mariety of Mervous Disorders to which we are now so much more subject than our Forefathers were, we may with justice attribute to the free use of Jea and Coffee . It is scarcely 100 years since these have entered into general use and in this time a great Re. volution has happened in the Diseases to which the Human Constitution is liable. Before the Introduction of Tea and Coffee Meat was used in much greater quantities than now. In Queen Elizabeth's Keign we know the Court Ladies had an allowance of Meat and Beer for their Breakfast putrid and Inflammatory Severs were then more prevalent and Merrous Disorders on Nervous Fevers were then very uncommon which now consti. twite the greatest part of our Diseases. There is no doubt but what we have benefitted by the Change. They have also contributed to the refinement of manners which has so generally taken place within the last Century the free Intercourse which they have occasioned between the Sexes has contin buted to polish the one and improve the other. This has also contributed to abolish that Therocity of Manners which farmerly took place.

Antispasmodis

Antispas modics.

Spasm implies simple Constriction, we therefore add involuntary vin obent and inordinate to distinguish it from natural Constriction. Spasm and Convulsion signify nearly the varme thing, but if we distinguish them Spasm denotes a simple Contraction without alternate Relaxations; Com vulsion means repeated Constrictions and Relaxations. They are both of the same kind, they affect the same sparts are owing to the same Causes and often change from one to another. We do not however consider Spasm in this limited Sense but ranks under it Spasmodic Motion of every kind and by antispasmodies we mean those Medicines which take off this Motion whither they are more strictly speaking Spasm or Convulsions.

Tetid Gums. These have been always known to be powerful antishas, modies. But previous to sheaking of this Virtues, we shall treat of the Dis. orders in which they have been used. Of these the chief is the Hysteria. This deserves a particular attention on account of its frequency, its obscure the two and Origin, its Violence and the difficulty of distinguishing it as well as curing it. No disorder furts on such various appearances, it attacks the Mind as well as the Body; there is scarce a Disorder but what it imitates and resembles and there is no part on Trunction but what it affects. It is a disorder that has been known at all times and in all places. The have descriptions of it in the early Writers the much inferior to the accounts they have left wif the Disorders: this was probably owing to Women being chiefly intrusted with the Gue of this Disorder which was supposed to originate in the Attenus and Physicians were never called in but in obstinate and desperate Bases. It is but lately indeed that pohysicians

have formed a proper Idea of this Disease. It may be said to consisting affections of the Newows System and spasmodic Convulsive Motions of the alimentary Canal and more or less general Motions of the whole Nervous Lye. tem. Tis more common to abomen than to Men and there are very few Women who do not at some period of their Lives experience its effects. It is not how, ever confined to the Fair Sex, Men are sometimes really affected with the Hysterics which are different from the Approchandriasis in Nature and fun as shall be shown presently. The' every Woman is subject to the Hysteria yet all are not equally liable to be affected with it; it chiefly affects those of a peculiar Habit, Temperament & Idiosynerasy, who live on certain aliment & are at a particular period of Life: In some the Disorder is brought on by lighter Causes than in others and these again are more severely affected Some are affected from the most trivial and light Causes; in some it is produced only by considerable bauses. Those persons that are naturally instinct to the sy teria and are frequently and violently affected by it are generally probeful of great Sensibility and Mobility of Body and Mind, they have an exquisite Sense of pleasure and pain they are of a lively Imagination and joyous Disposition, they are pusilanimous, light and fishle they are prono to vavious passions and affections of the Mind; those also who have particular I diosynerases when they are affected in a particular Manner from cer: tain Odors aliments and Justes which are agreeable to most persons. It attacks those of a lax, soft tender and weak Habit of Body; of an ele: gant, delicate and graceful Form those who have large arterial Systems and are subject to copious Menstruations; those also who are vulgetto Hamor hages, who lead an idle, indolent Sife, live high and use but little Exercise; those who are afflicted with Grief, Care and Sole · citude

citude. Those also who are recovering from tedious Disorders or who have had profuse Hamorrhages or other Evacuations which debilitate the Body. This Disorder is not confined to the more delicate; it is very frequent and violent among the Unigar & attacks Women of a strong masculine habit of Body. Ulmmaried Moment, Widows and barren Mines and those who are subject to Hamorrhages from the Attenes and labour under the Chlo. rosis are most subject to it. It however also attacks pregnant Thomen and Momen in all Ranks and Situations of Life It is always an heriditary Disease with some Shomen and even whole Families when it is owing to some fault derived from the parent. Thoman of a robust and manly habit, and a sanguineous Temperament who are prone to affections of the Mind are seized with a convulsive hysteric Suffication and are violently after. ted over the whole Body. Those of a phlegmatic Habit soho are aperted with a Chlorosis, who are weak and delicate are seized with Faintings and more local or topical Affections. This Disorder feequently occurs from the age of puberty till the total regation of the menstrual discharge. It is not however confined to this period I have known it attack Girls of eight or ten years before there was the least appearance of the Mendes. It also attacks Thomen after the Menses have ceased, even when they are

sirty or seventy years olds. It frequently attacks Fromen when their Menses are about to cease altogether likewise pregnant and lying in Momen particularly after difficult Labours.

The occasional Causes in persons who are predisposed are as numerous as they are various - sudden and violent Sen. sations of the Mind and mental Affections in general. Of these none are more liable to produce the disorder than vio: lent Anger, great Terror or sudden Consternation; Objects horrible to the Eyes; the sight of a Person in an Hysteric Fit: or an unexpected Melsenger of sorrowful Tidengs; the improper Relation of dreadful and unfortunate accidents; the recollection of former violent Emotions; nay even fightful Dreams have sometimes brought on the Disease. Bertain Odows particularly perfumes as Mush, Roses of have pro. duced it in some Thomen - in others it has been occasioned by the noise of particular Sounds. Hoffman and Whyth give us Instances of strong Light having thrown persons into an kysterice Fit. Retention or Suppression of natural or custo. mary Evacuations, particularly a sudden Suppression of the Lochia or Menses from cold or moisture, obstructed perspiration, costiveness or other causes of this kind have been very properly ranked among the occasional Causes.

Rofuse.

Profuse Hamorrhages of the Mendes on Lochia and immo. derate Diarrhaad will sometimes give occasion to the pro. dustion of the Hysteria further, taking cold when the Bo. dy is warm or fatigued with Labour or Exercise, Pletho. . ra Debility Inaction, Satigue, Watching, acute Diseases pregnancy Errors in the quantity of Aliment or Drink, Fasting, Marm Drink, Hatulent Food, or Good with regards to which the person has an Idrosyneracy as Fish or Milk, strong batharties, the Retropulsion of Arthuitie or Rheumatic Complaints, repelled miliary Emptions, Theor albus with airid ulcerating matter in the part, Schirus and bancer of the Atterns, Prolapsus Atteri, violent pain with many other things of an irritating Nature and finally whatever occasions Commotion in the Nervous System may be ranked amongst the occasional bauses of the Bysteria. Scarce any exciting bauses are required if the Disease has returned frequently or become periodical. We are next to give the History and Cause of the Disease, not however in a rage lar manner, for this would be next to impossible. The Symptoms imitate every Disorder and veldom preserve as certain (tule or Types. They are scarcely ever the same in two different persons: they are even different in the same person at different times. If the attack is not sudden

sometimes before the dit is completely formed the patient yours and stretches, and feels a heaviness, lassitude and languor in the Limbs and Members of the Body with a lowness of Spirits; Elushings of Heat are frequently felt on the horehead, Checks, Temples, and these are preceded by a Sense of Edd and Chillines shifting from one place to another. The Course tenance is either pale or flushed; pains are felt in different parts, as the Checks, Loins, and Extremities - but these generally occupy the Back and some parts of the Head. The Revine is Compied like Mater, and is made in large quantities. A Motion is perieved, at first obscurely as if a Ball were moving backwards and forwards in the abdomen this appears as if it tended towards the Diaphraghm. The Ball appears to grow softer and larger until it arrives at the Pit of the Sto. mach, when it again contracts into a hard lump- as the Ball goes up it occasions various Symptoms - Some parts of the Abdomen appear hard and prominent and others as if retracted - there is a rumbling Noise in the Intestines. The Johnse ter Ani is so contracted that it will not admit air to pass, non a Elyster pipe to be introduced. There is an anxiety and opposed. sion at the pracordia with a Sinse of Tightruft and Constriction. The Epigastrium appears as if distinded, the Res. piration is difficult, anxious and small. The pulse is hard small, intermitting trembling and unequal with a dry convulsive

convulsive bough - these are attended with a singing noise in the Ears - sparkling before the Eyes, a Giddiness of the News a Acavine's of the Senses - the patient is at last seized with a slight fainting or is overwhelmed with Sleep and lies in a soporose State or Stupors. The Ball which is called Elabus Hyste. ricus afterwards rises into the Throat attended with a Tumor of the Lauces; the Respiration becomes thick and short with a Sense of anxiety and Construction so great as if the nauces were drawn together and tied with a bord or Bandage and which threatens immediate Supocation - the Poice is lost, the Countenance appears livid and swelled, the pulse appears almost abolished low, small and slow, the Breathing is so imperceptible that it ap pears as if there would be immediate Suffication the Eyes grow dim, the patient at length sinks away into a Sleep, during which she is either agitated with Convulsive Motions or less immoveable. When the paroxyom remits the sleep becomes more placed and she recover with repeated slow sight, a rumbling Noise in the Belly and a discharge of Statulencies and some times a serous Discharge from the Pagina the Eyer open The Heat and the Colour of the Countenance become animated and the Senser and Judgement, return with the Poice. after the parox your they complain of a Deaviness and a Sense of Sain in the head, they remain infirm and torpid - The paroxy son is sometimes attended with Convulsions; By these Convulsions

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the Body is forced into various positions - They exert uncommon Strength and perform Feats which appear almost miraculous; they bend and extend the whole Body - they jump, tremble and are twisted round with the utmost Molocity - they are distorted into a thousand different shapes; they generally retain some Sense; they hear they see and they know and on the remission of the pa. roxysmo, they recollect every thing that had paped - they are, sometimes siezed with Convulsions which resemble the Epilepay when they fall down suddenly with a loft of Keason and Sense. These Convulsions are often succeeded by a disagreeable Sensation of cold air arising from the puber, Seet and arms advancing towards the head and upon reaching the head they are attacked with bon. vulsions and fall down senseless. The Convulsions are some. times constant, but they generally intermit. At times after be. ing affected in this manner, the motions cease entirely and the patient falls into a Sleep resembling the apoplectic: When they recover they are ignorant of what papers from the time they were attacked. Some are apperted with a Paraplegia and Hemiplegia, oc a paralysis of a particular part. They are sometimes seized with a Catalepois - Sometimes the Mind is more affected than the Body. The Tongue appears as if chattering but they observe no orders they faulter and speak nonsense - They beat their Breasts as if they had pain there without reason - They are agitated. with dreadful Pisions. They are borne away by different and opposite Passions of the Mind which susceed each other

without any reason. Rage, Fear, Hatred, Love Hope and Despair rapidly follow each other. With as little Reason they change from origing to the most inordinate bits of Laughter and are dissolved in foolish Mith. There are likewise considerable affections of the Brain there is a dig. zines of the Bead - various Anages present themselves before the Eyes as Elis. The patient sometimes lies comatoso - There is a sudden abolition of Strength, fluttering of the Heart, a Coldness of the Exe. tremities and Synesper. The ellind and Senses are asting, the pulse and Respiration are diversified in a thousand different Mays. They lay immoveable and to all appearance dead and continue in this State for one or more days, untill they have been laid out for Interment - and there are one or two Anstances upon record re lated by grave authors of persons in this state being actually buried and who came to life again in the Pault in which they were deposited where they perished most miserally. Regow and Tremblings attack the Patient with a Coldness of the Extremities. a violent biting bold and severe pains are felt in the Back, Loins and Or borrygis. There are also wandering Plains with a fende of Constriction as if the Part was tied or comprehed with as bord or Bandage - There is not seldom severe tense dull or acute pain of the heads; these are vometimes fixed, sometimes continue vague and periodical; sometimes on one, sometimes on the other Side of the head. At times it is reated externally in the Touheads, with a vense as if a chail were driven through hence it is called the Claves Rystericus. These are

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almost always attended with a Giddiness and Sense of Jullrep in the Head a singing in the Ears with an intollerable dense of Heat and bold and a violent pulsation of the Arteries. There is sometimes a Naurea and homiting of poraceous Bile at times with excrucating pains of the Seeth and face with a discharge of Saliva and stinking Breath. There are sometimes acid bilious and sulphureous crustations so extremely acid as to set the Teeth on edge; Heartburn, Hiscough, Borborygmie with various kinds of Pain in the abdomen in the pit of the Stomach and the Regio boli. Some are attacked with excepsive and incepant bomiting and sometimes a Dearrhaw; some are troubled with bolic and the Plias Papion with Tenesmus and bolies ending in Jaundice. Some have a constant and wident desire to make thater . In some the Urine is suppressed or only evacuated in Drops with a Sense of great heat and pains resembling the Nephritis. The bolor and Sediment of the Wrine vary, in some bases the Disorder returns periodically with a dry convulsive bough - There is a tightness in the procordia, a palpitation in the Heart, a Giddiness or slight faintings Fits. This Disease is often complicated with other Disorders. When a patient who is subject to this Disorder is attached with other Disorders, whatever may be their form, some Symptoms of the Aysteria will still accompany them. It is wident that in different bases, different and even opposite Methods of

will be required. The paroxypms are of various appearances and always of different duration - some last only for a few minutes some for hours and even for days. In general the more violent the attack the sooner it ceased - The slighter attacks on the Contrary continue for a considerable time those which affect only a par. ticular part continue for some time. In some the desorder is not very apt to return this depends on the general habit of the Body and the occasional Causes. In others it returns on the slightest occasions and this is most generally the case The Disorder returns at uncertain periods . The acceptions are different from each other. In some they succeed each other quistly and the patient will have several paroxy smo in a day. They commonly attack at the menstrual period. on returning frequently they become in a manner perpetual. They often become periodical when the same train of Symptoms succeed each other in every paroxyon. During the Intervals the patient is sometimes perfectly well and quite free from all Complaints and every pain. Others, particularly those advanced in Life who are weak and in whom the Disorder has con. tinued for a long time, during the intervals complain of a Headache, the Might Mare, Matching, Dreams, This Dison. du of itself is seldom mortal, but then it lays the founda. tion of other Diseases, which prove more fatal in their termi nation. Most Author are of Opinion that the Rysteria and Appochondriasis are the vame Disease and should only have

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different names as they occur in different Sexes. But though they agree in many particulars and have several Symptoms in com mon! they have still more which are peculiar to and charac. teristic of each disorder. By comparing the Description of the Dis: order just given with the Agpochondriasis it will appear that They are really distinct. Persons subject to these Disorders differ altoge. ther in habit and temperament. The Aysteria generally attacks the female Sex the this is not always the bases as we have many Instances of the Rystoria in Men and many cades called Hypochondriae are really Hysteric and vice versa. The Hypochondriasis generally attacks persons of a melan. choly temperaments of a dry, rigid and lean aspects and a dark bountenance who have rough black curled hair, the Veins are large and turged they are generally subject to Costiveness and the piles; they possess a calm, tranquel equal and constant mind; they are sedate & reserved. A generally attacks persons in the decline of Life, it ad vances by slow steps; it is constant and perpetual and continues for months and years by day and by nights without Interval It is seldom radically cured . It is evident from what has been said how different the Sypochondriasis is from the Mysteria. The Bysteria is chiefly confined to Momen, it occurs in the Prime of Lift in persons of a sanguineous Temperament who

who are possessed of great Sensibility and Irritability of herves and mobility of the System. The Caroxyem is violent toudden, but is soon over , perhaps never to return. During the bis terval the patient enjoys an uninterrupted state of health Some Symptoms are exactly similar in both, as in the ali. mentary banal, the sistention of the abdomen, the acid bue. tations, the brudities be are the same in both but these Symptoms likewise occur in other Disorders - they occur in the Chlorosis, Suppression of the Menses and in the Gout. In the Systeria the Symptoms are more violent and more purely spart. modie and convulsine they are likewise more extended over the System. In the Ayporhondriasis ther ymptorns are less violent and are confined in a great measure to the alimentary Canal. The moveable Bale and constriction of the Lauces never occur in the Hypochondriasis now is the abdomen contracted by Spasm nor the havel retracted as in the Hysteria. The Habit and Frame of Mind is also different. The Hyposhondrias is in every place and always melancholy, sad and anxious, fear. Jul suspicious, diffident apprehensive and always foreboding some ill fortune to themselves - they give up all hopes of the covery they suspert their most assured driends they loathe the World and every thing therein; they are fond of Solitude and fly Society - their Mind is intent on one Object both day and Night, from which they are diverted by Dreams, thain Sears and Terrow. When the ellind can be drawn from the Subject they reason with Judgement on other Subjects and

even seem to possess superior Judgement, Prudence & Sense The Hypochondriasis is distinguished from Melancholy only by being accompanied with affections of the alimentary (a. nal. It is not rare to find the Hypochondiasis change into real Melancholy and even Mania . It there is ellelancholy in Hysterias it seldom continues long, and is soon succeeded by Joy Mirth and Laxighter; the Mind is seldow intents ons one Object. The Fransition from one Subject to another is sudden Then the paroxysm is over the patient possesses a sound Mind and healthy Constitution. Both the Disorders may be complicated in the same person with one another. The Ays. toria may be changed into the Approchondicasis partly from ad. vanced age and from obstructions being formed in the Viscera The Mysteria is often produced from Suppression of the Menses and the Epulsion of various Eruptions. It is very probable that pains in the Head affections of the alimentary Canal Cardialgia - Hatulenies and acidity which accur in Chlorosis the arthitis to when they take place in a female have been too aften mistaken for the Hysterias, and it is this probably in has led physicians to consider Aysteins as being frequent & inconstant.

The are next to treat of the best allethod of relieving the Bisoider but previous to this we must premise something with respect to the prognosis. The the Disease may appear very alarming the hear is generally greater than the Danger

when it is attended with a suppression of the Menses the Hoppochondria disease or other complaints the more of them copperate the greater will be the difficulty of cure. On the other hand if the Patient is young the disorder's recent if it has arisen from affections of the mind or suppression of the menses the fewer alarming symptoms that occur - the easier and quicker will we rel. ieve our patient - The Indication of cure turn on Three points - 1st to remove or quard against the occassional Gauses - 2 nd to mitigate shorten or relieve the Paroxism and to guard against its consequences 3 nd to prevent the return of the Paropisms by avoiding the occasional conecting the predisposition of the system to the disease by restoring tone to it heist with respect to the occasional causes - these are sometimes ext = emal and transatory they are very various parts isularly so in such things as excite the mind or they may be constant or in here and in the body - such as suppression of the menses - fluor - albus & lo for this reason it is

evident that it sometimes requires different + when the predisposition to this very great-and even Oposite treatment from what it does at-other times - with respect to the second indie = ation when the symptoms of the Paropesin are slight - There is little or ino occasion for Medeine and we may as well abston from the use of it - But if the acission is sever we should afford the most speedy relief in our power if there are symptoms of plethora or the disease has been brought on by Cold or a suppression of the menses particularly when this has taken place suddenly - bleeding will afford instantaneous relief - when ever there are symptoms of blood being obstructed and stagnating in the head on Leungs were the uspiration is difficult and short the Countenance livid when there are symptoms of leona or Lethergy we should never heritate to take away some blood the the pulse is small and vibrating the

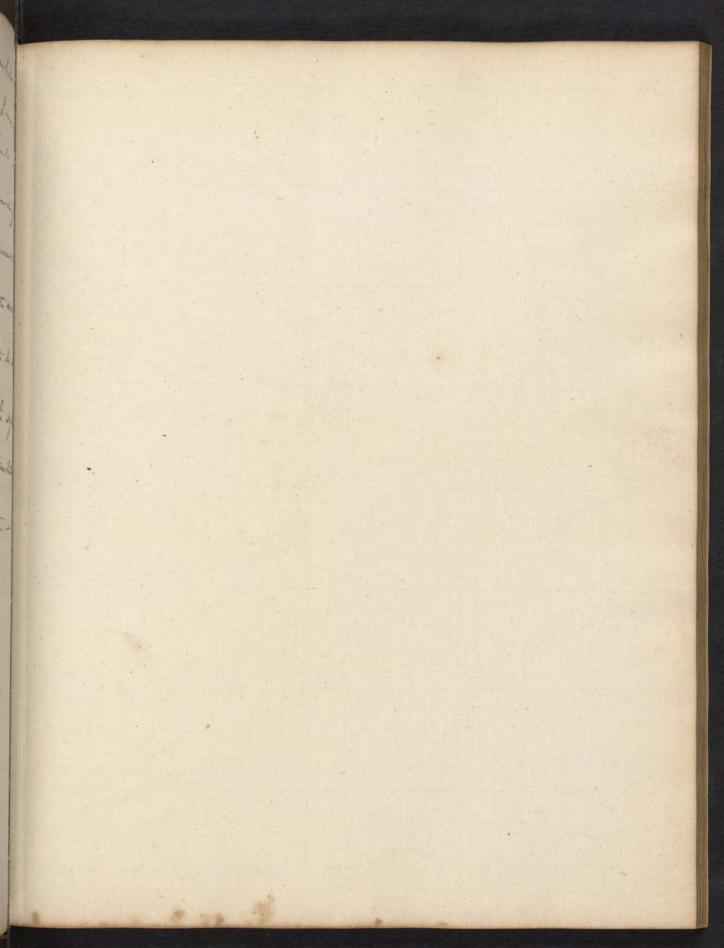
pulse in the cases will often become stronger and quie her upon bleeding - we should nover order bleeding but with caution and circum. spection it is a general Observation that unseasonable bleeding has been attended with the worst Consequences and has ever destroyed the patient - It is to be considered only as a palliation and affording temporary rehish of only a small Quantity is taken away or a particular sympton require the loss of some blood - it is better accomplished by Leaches or Cupping Gl. afses with scarification - If the disease is accompanied with Spasmodie or Convulsive efforts perturbations of the mind and delinium sedatives and antipasmodies of the milder Kind are to be employed - If there is a syncope, Catalipsis Coma or abolition of the senses we should constantly and with prudence administer what are commonly called nervous medicines or the stronger antipasmodies by the stimulus of

which sense and motion are executed the wake medicines should be first tried when these fail we should have recourse to the more powerfull the heating and violent stimula= ting substances should always be avoided these always increase the ampiety of the pracordia render the resperation difficult and increase and excite convulsions. These rémedies should le giver as smoot as profaille in the beginning of the paroxism when thus given they will often powent many of the symptoms which would otherwise occur - The Patient should be recovered by external applications various methods are employed for this purpose - Volatile Salto and volatile of pritis, Vinegar, Factions, the smoke of cancile wick burnt, feathers Leather and bones, the smoke of Lobacco and afrafeticia are to be applied to the nostrile - the breasts abdowner and other parts are to be

rubbed with woolen Cloths impregnated with Campshor faction Expetheus. Ether, aroundic plasters and anodyne Glisters may also be used with advantage Pedilewia may like wise be emplo oyed bold water may be thrown on the face and breasts with suces this is every day used when Syncope comes on if the Type cope does not yield to these applications and the patient has no appearance of sence or motion strong sternerlatores resurators. Glysters and emeties even of the acrid kind may be had recourse to it is sometimes difficult to tell wither the person is dead a not in this case some advise us to make loud cies to prick the Body in various parts to apply strong stermetators and even the actual Cantery to the soles of the feet but there is no doubt but these are clargerous, expedients

we should be continued how we apply strong Itemutatores when the countercence is livid and bloated lest we should occasion a suptime of some blood vefsel of the Lungs or brain we should have recourse to gentler methods, as the gentlest and least stimulat ing - leathartus the warm bath and modera te fiction - if any enternal medicenes are requisite they should be given in solution and in large doses - Opium Camphor Ether the Volatile alkali and the various com = bination and learniposition that may be formed from these are most proper for this disease the dose and choice of these is to be regulated by the habit of the Pracient - after the panyyour is removed the patient is to be kept in

hed and represhed by Cordial and exhibiting medicines and Drinks - by which I mean in general volatile medicines - lue should be carefull to prevent a return by avoiding every thing that may dispose to this disease or may serve as an Occasional Cause to excite it afish - but it is principally to be done by correcting the predesposition of the system and the two great senselility and inibility of the prima Nice and Nervous system in



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